Congratulazioni per aver acquistato il rasaerba AMBROGIO. L'aver scelto questo prodotto potrà soddisfare le vostre esigenze e aspettative. Questo progetto nasce da ZUCCHETTI CENTRO SISTEMI S.p.A. (Azienda certificata UNI EN ISO 9001) software house che, dal 1982, ha consolidato la propria attività e la propria presenza sul mercato internazionale. Le soluzioni applicative del software abbinate al settore industriale di automazione, fanno nascere prodotti nuovi che ottimizzano le procedure di lavoro. È così che è nato, dai laboratori di ricerca, AMBROGIO.

Congratulations for having purchased the AMBROGIO lawn mower. This choice will surely meet your needs and expectations. This product is the result of research at the ZUCCHETTI CENTRO SISTEMI S.p.A. (certified UNI EN ISO 9001) software house that, since 1982, has been consolidating its role on the international market. Innovative software solutions applied to the industrial automation sector introduce new products that optimise working procedures. AMBROGIO was developed on the basis of this research.

Tous nos compliments pour avoir acheté la tondeuse à gazon AMBROGIO. Vous avez choisi un produit qui répondra à vos besoins et à vos attentes. Ce projet naît au ZUCCHETTI CENTRO SISTEMI S.p.A. (Entreprise certifiée UNI EN ISO 9001) software house qui, depuis 1982, a consolidé son activité et sa présence sur le marché international. Les solutions d'application du logiciel, jumelées au secteur industriel d'automation, ont permis la naissance de nouveaux produits qui optimisent les procédures de travail. C'est ainsi que, dans nos laboratoires de recherche, est né AMBROGIO.

Wir gratulieren zum Kauf des Rasenmähers AMBROGIO. Ihre Bedürfnisse und Erwartungen werden durch die Wahl dieses Produkts mit Sicherheit erfüllt. Die Firma ZUCCHETTI CENTRO SISTEMI S.p.A. (mit UNI EN ISO 9001 ausgezeichneter Betrieb) Software House, die ihre Produktion seit 1982 festigt und damit auf dem internationalen Markt vertreten ist, zeichnet für dieses Produkt verantwortlich. Die angewandten Softwarelösungen führen in Kombination mit der industriellen Automatisierung zur Entstehung neuer Produkte für eine Optimierung von Arbeitsprozessen. Auf diese Weise entstand in den Forschungslabors AMBROGIO.

Felicidades por haber adquirido la cortadora de césped AMBROGIO. Podrá satisfacer sus exigencias y expectativas al haber elegido este producto. Este producto nace de ZUCCHETTI CENTRO SISTEMI S.p.A. (Empresa certificada UNI EN ISO 9001) software house que, desde 1982, ha consolidado su propia actividad y su propia presencia en el mercado internacional. Las soluciones de aplicación del software combinadas con el sector industrial de automatizando, hacen nacer nuevos productos que optimizan los procedimientos de trabajo. Es así que ha nacido, en los laboratorios de investigación, AMBROGIO.

Wij wensen u van harte geluk met de aanschaf van uw AMBROGIO. Wij zijn er zeker van dat deze machine voldoet aan al uw verwachtingen en vereisten. AMBROGIO is een project van ZUCCHETTI (met UNI EN ISO 9001 certificaties), een softwarebedrijf dat sinds 1982 met haar activiteiten een eigen plaats verwierf op de internationale markt. De combinatie van de oplossingen die worden geboden door softwaretoepassingen en de industriële automatisering resulteert in nieuwe producten om de bedrijfsprocessen te optimaliseren. Zo ontstond in onze onderzoekscentra AMBROGIO.

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Manuale d'uso
Rasaerba Robot — Italiano — I

User's manual
Lawn Mower Robot — English — GB

Manuel d'utilisation
Tondeuse à gazon Robot — Français — F

Bedienungshandbuch
Rasenmähroboter — Deutsch — D

Manual de uso
Cortadora de césped Robot — Español — E

Gebruiksaanwijzingen
Grasmaaimachine — Nederlands — NL

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ZUCCHETTI Centro Sistemi S.p.A. Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALIA, dichiara che la macchina, identificabile dai dati riportati in calce, da utilizzare per rasare prati in ambienti domestici e non, è conforme alle direttive: 98/37 CE - 78/23 CEE - 89/336 CEE. Per queste ultime sono compresi i successivi emendamenti.

Konformitätsbestätigung (98/37 CE Beilage II Punkt A)
Die Firma ZUCCHETTI Centro Sistemi S.p.A., Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALIEN, erklärt, daß die mit den unten angegebenen Daten gekennzeichnete Maschine, die dazu bestimmt ist, zum Mähen von Rasenflächen in Wohn- und anderer Umgebung eingesetzt zu werden, folgenden Richtlinien entspricht: 98/37 CE - 78/23 CEE - 89/336 CEE. Letztere schließen nachfolgende Abänderungen mit ein.

Declaration of conformity (98/37 CE annex II paragraph A)
ZUCCHETTI Centro Sistemi S.p.A., Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALY, declares that the machine, identified by the data included hereafter, to be used for lawn mowing in household and other environments, complies with directives: 98/37 EC - 78/23 EEC - 89/336 EEC and amendments thereto.

Declaración de conformidad (98/37 CE anexo II punto A)
ZUCCHETTI Centro Sistemi S.p.A. Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALIA, declara que la máquina, que se puede identificar por los datos al pie de la página, y que tiene como uso cortar prados tanto en ambientes domésticos como no domésticos, es conforme a las directivas: 98/37 CE - 78/23 CEE - 89/336 CEE. Para estas últimas están incluidas las enmiendas sucesivas.

Déclaration de conformité (98/37 CE annexe II paragraphe A)
ZUCCHETTI Centro Sistemi S.p.A. Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALIE, déclare que la machine, identifiable par les données rapportées plus bas, servant à tondre les pelouses en milieu domestique et non, est conforme aux directives : 98/37 CE - 78/23 CEE - 89/336 CEE. Pour ces dernières, sont inclus les amendements additionnels.

Verklaring van overeenstemming (98/37 EG bijlage II punt A)
ZUCCHETTI Via dell'Olmo 99 A/B Terranuova B.ni (AR) ITALIA, verklaart dat de machine waarvan de identificatiegegevens hiernaast worden vermeld en die bedoeld is om gras te maaien in huishoudelijke en andere omgevingen, voldoet aan de richtlijnen: 98/37 EG - 78/23 EEG - 89/336 EEG. In de laatste richtlijnen zijn ook de latere wijzigingen inbegrepen.

Modello/serie - Model/Series
Modèle/série - Modell/Serie
Modelo/serie - Model/serie

Bernini Fabrizio
(Amministratore delegato) - (Managing director)
(Administrateur délégué) - (Geschäftsführer)
(Administrador delegado) - (Afgevaardigd beheerder)

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PURPOSE OF THIS MANUAL

The constructor has produced this manual, which forms an integral part of the appliance, to provide the necessary information for those authorised to interact with it during its working life.
Personnel working with the machine must adopt correct working practices and must also carefully read and strictly follow all the instructions given in this manual.
This manual is written by the manufacturer in the original language (Italian). It may be translated into other languages to satisfy commercial and/or legal requirements.
Study this manual carefully. It will help you avoid unnecessary risks to personal health and safety and risks of damage to equipment.
The constructor reserves the right to make changes without any obligation to provide any prior notice.
Some information and illustrations set out in the present manual may not perfectly correspond with the one in your possession, but that does not compromise its validity.
The manufacturer reserves the right to make all necessary changes without prior notice of any kind.
The following symbols are used throughout this manual to identify particularly important sections of text or data.

Danger - Attention

This symbol identifies situations of imminent danger which, if ignored, lead to serious risks to personal health and safety.

Warning - Caution

This symbol identifies situations in which it is essential to behave in a certain way to avoid risks to personal health and safety and risks of damage to equipment.

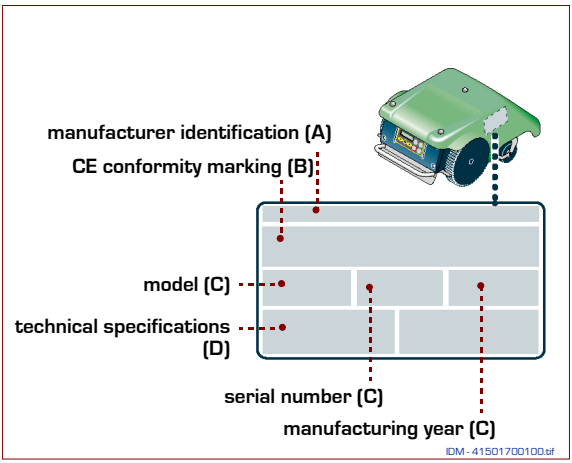
Important

This symbol identifies specially important technical information that must not be ignored.

IDENTIFICATION OF MANUFACTURER AND APPLIANCE

The dataplate shown here is fitted directly to the appliance. It features references and all essential information for operating safety.

A) Name of manufacturer
B) CE conformity label.
C) Serial model/number year of construction.
D) Technical specifications



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REQUESTING TECHNICAL ASSISTANCE

For every technical service request regarding the machine, please indicate the data found on the identification plate, the approximate hours of use and the type of fault detected.

TECHNICAL INFORMATION

EQUIPMENT GENERAL DESCRIPTION

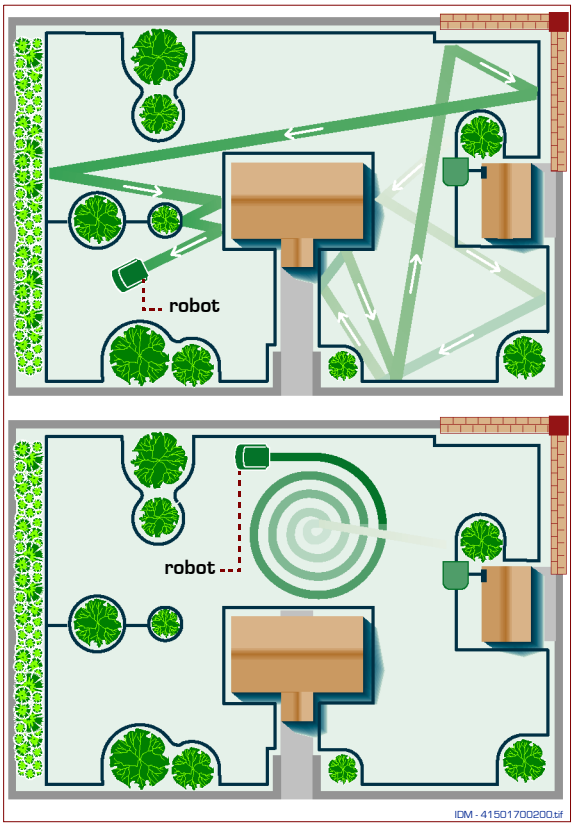
The appliance Ambrogio Line 200 is a robot designed and built to automatically trim grass in gardens and house lawns in any time of the day. It is small, compact, silent, waterproof and easy to transport.

Relative to the various specifications of the sufrace to be mown, the robot can be programmed to machine a number of areas: a main one and, in addition, two or three secondary areas.

During its functioning the robot trims the area marked off by the perimeter wire and/or by barriers (fences, walls, etc.)

When the robot detects the perimter wire or meets an obstacle it changes trajectory in a random manner and starts again in a new direction.

According to its functioning principle ("random"), the robot carries out an automatic and complete trimming of the marked off lawn (see figure).



The lawn surface that the robot is able to trim depends on a series of factors.

- robot model and type of batteries installed
- area features (irregular perimeters, uneven surface, divided area, etc.)
- lawn features (type and height of grass, moisture, etc.)
- blade conditions (with efficient sharpening, without residues and deposits, etc)

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The robot Ambrogio Line 200 is produced in the BASIC, DELUXE and EVOLUTION versions.

BASIC version: basic model which can mow surfaces up to 1500 m^2. On request, it can be equipped with two lead batteries or a lithium battery.

DELUXE version: model able to mow surfaces up to 2600 m^2. On request, it can be equipped with two lithium batteries, which make it possible to mow surfaces up to 3000 m^2.

EVOLUTION version: model able to mow surfaces up to 3000 m^2. It is equipped with two lithium batteries, telecommand and sensor to detect the "mown lawn".

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All models are equipped with a sensor which, when it rains, stops the blade and makes the robot return to its recharging station.

On request, models can be equipped with an amplified transmitter, electromagnetic interferences filter, electronic alarm and power supply protection box.

For more details, consult the table showing technical data

Each robot is provided with a recognition password in order to impede its use should it be stolen.

When the purchased, the password inserted by the manufacturer comprises four numbers (0000).

To customise the password see "Programming mode" (§ "Enter password").

Main parts

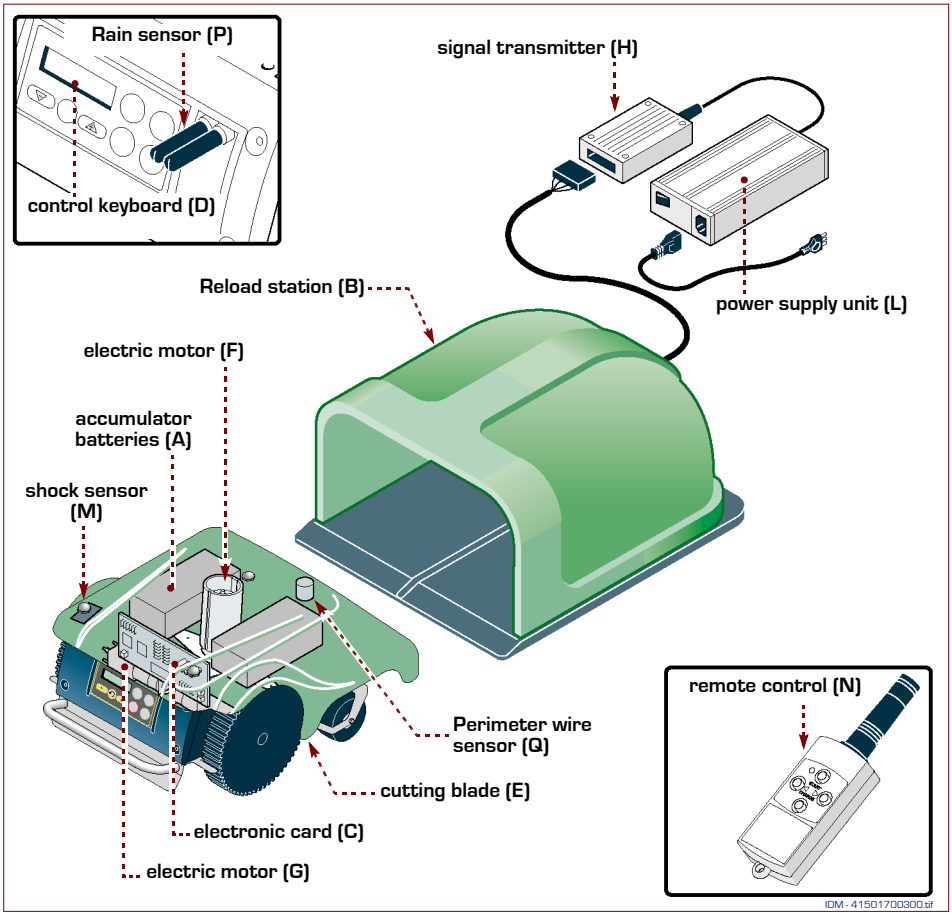
- **Accumulator batteries (A)**: they energize the motors of the blade and of the wheel control system.
  The robot is supplied with lead batteries or with one or two lithium batteries, which assure a longer working session.
- **Recharging station (B)**: used to charge or keep the batteries charged **(A)**.
- **Electronic card (C)**: it checks the automatic functions of the robot.
- **Control keyboard (D)**: it is used to set and visualise the functioning modes of the robot.
- **Cutting blade (E)**: it trims the lawn.
- **Electric motor (F)**: it starts the cutting blade **(E)**.
- **Electric motor (G)**: one actions the right wheel transmission group while the other actions the left wheel.
- **Transmitter (H)**: it transmits the signal to the perimeter wire.
- **Power supply unit (L)**: it energizes, at low tension, the battery power.

Important

The power supply unit (L) varies according to the type of batteries installed (lead or lithium batteries).

- **Impacts sensor (M)**: detects robot impact against an obstacle and enables a change of trajectory in a random manner.
- **Remote control (N)**: it is used to check the robot functions in a remote position.
- **Rain sensor (P)**: detects rain and enables the return of the robot to its charging station **(P)**.
- **Sensor (Q)**: detects the perimeter wire and enables a change of robot trajectory in a random manner.

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SPECIFICATIONS

Description		Model		
		BASIC	DELUXE	EVOLUTION
Cutting blade 4	(mm)	220	290	290
Cutting speed	(m/min)	25	25	25
Cutting height	(mm)	20-60	20-60	20-60
Maximum gradient of the surface to trim		27°		
Electric motors	(V)	cc (24V)	cc (24V)	cc (24V)
Size (basexheightxdepth)	(mm)	610x410x265	610x410x265	610x410x265
Robot weight (without batteries)	(kg)	9,2	9,2	9,2
Ambient functioning temperature	Max	40°	40°	40°

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Description		Model		
		BASIC	DELUXE	EVOLUTION
Battery accumulator recharge type				
battery accumulators (lead)	(V/A)	27,6V - 4A	-	
battery accumulators (lithium)	(V/A)	29,3V - 4A	29,3V - 4A	29,3V - 4A
Maximum surface that can be trimmed				
Robot with two lead batteries (12V-12A)	m^2	1500	-	-
Robot with one lithium battery (25.2V-6A)	m^2	1500	2600	-
Robot with two lithium batteries (25.2V-6A)	m^2	-	3000	3000
Electric specifications				
Power supply unit (for lead battery)		Class 1 (Vin 115-230 Vac 50Hz) Fuse 5x20 4A F (inside) 27,6 Vac Fuse 5x20 10A F (replaceable) Selector 115-230 Vac		
Power supply unit (for lithium battery)		Class 1 (Vin 115-230 Vac 50Hz) Fuse 5x20 4A F (inside) 29,3 Vac Fuse 5x20 10A F (replaceable) Selector 115-230 Vac		
Section perimeter wire (to lay underground)	(mm)	ø1,5	ø1,5	ø1,5
Perimeter wire maximum length (approximate, calculated according to a regular perimeter)	(m)	600	600	600
Fittings				
Sinusoidal perimeter signal (patented)		standard	standard	standard
Rain sensor		standard	standard	standard
Intelligent spiral		not available	standard	standard
Blade modulation		not available	standard	standard
Trimmed lawn sensor - Auto-programming (patented)		not available	not available	standard
Remote control		on request	on request	standard
Alarm		on request	on request	standard
Kit for working with gradients higher than 27° [1]		on request	on request	standard
Perimeter wire	(m)	100	150	150
Fixing nails	(n°)	100	200	200
Upgraded transmitter		on request	on request	on request
Electromagnetic interference filter		on request	on request	on request
Power supply safety box		on request	on request	on request

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Description		Model		
		BASIC	DELUXE	EVOLUTION
Battey charger kit (winter period or extended inactivity)		on request	on request	on request
Wheels with "nailed" tread		on request	on request	on request
Wheels with "claws" profile tread		on request	on request	on request

(1) If the ground conditions are suitable (solid, without excessive folds, etc.), the kit allows the robot to work (within certain limits) beyond the maximum admissible gradients.

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SAFETY INFORMATION

SAFETY RULES

- During design and construction, the manufacturer has carefully considered the possible hazards and personal risks that may result from interaction with the machine. In addition to observing the specific laws in force, the manufacturer has adopted all "exemplary construction technique principles". The purpose of this information is to advise the users to use extreme caution to avoid risks. However, discretion is invaluable. Safety is also in the hands of all the operators who interact with the machine.
- **When using the robot for the first time, it is recommended to carefully read the whole manual and to be sure to have it completely understood, in particular all the information relating to safety.**
- Carefully read all instructions in this manual and those applied directly to the machine, taking particular care to read and follow safety precautions. Time dedicated to reading these precautions can prevent regrettable accidents. It is always too late to remember what you should have done after an accident has happened.
- Perform lifting and handling observing the information found directly on the packaging, on the machine and in the instructions furnished by the manufacturer.
- Pay attention to the symbols that appear on all the safety labels. They are coded by colour and shape to enhance safety. Keep all safety labels legible and always respect the instructions they give.
- The lawn mower may be used only by those who know how to operate it after reading and understanding the instructions in this manual.
- Only use the machine for the purposes specified by the manufacturer. Use of the machine for other purposes may be hazardous to personal safety and health and provoke economic loss.
- Before using the lawn mower make sure that no objects are on the lawn (toys, tree branches, items of clothing, etc.).
- When using the machine, make sure there are no risks especially for children, pets and things.
- Do not place hands or feet under the machine when running especially in the wheel area.

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- Never tamper with, avoid, remove or bypass installed safety devices. Such actions could lead to serious risk to personal health and safety.
- Keep the lawn mower in perfect operating conditions by performing the maintenance procedures outlined by the manufacturer. Good maintenance guarantees better performance and longer service life.
- Before maintenance and setting procedures are performed – also by the user, if possessing the necessary technical skills – disconnect the power supply. The user must in any case operate in full safety conditions, especially when working on the lower part of the lawn mower, following the procedures as illustrated by the manufacturer.
- Use personal protections as recommended by the manufacturer, especially the protective gloves when handling blades and cutting discs.

- **Always remove the blade before replacing the batteries.**
- **In order not to irreversibly damage electric and electronic parts, do not wash the robot with water jets at a high pressure and do not plunge it partially or thoroughly in water, as it is not watertight.**
- The operators performing repair interventions during the working life of the robot must have technical expertise, special abilities and experience, acquired and acknowledged in this specific sector. The lack of these requirements may cause damage to the safety and health of people.
- All operations, which must be carried out in the recharge base (optional), must be performed with the power supply plug disconnected.
- Replace deteriorated parts with originals to ensure functionality and the foreseen safety level.

SAFETY FOR MAN AND THE ENVIRONMENT DURING DISPOSAL

Do not dispose of pollutant materials in the environment. Dispose of all such materials in compliance with applicable legislation.

With reference to the WEEE directive (Waste of Electrical and Electronic Equipment), during dismantling, the user must separate the electrical and the electronic components and dispose them in the appropriate authorized collection centres or give them back as they are to the seller, when a new purchase is made.

All the components, which must be separated and disposed of in a specific manner, are marked with a special mark.

The unauthorized disposal of Waste of Electrical and Electronic Equipment (WEEE) is subject to fine according to sanctions regulated by the laws in force in the territory where the infraction has been verified.

As implementation of the European directives (2002/95/CE, 2002/96/CE, 2003/108/CE) in the Italian territory, for example, a law decree (n. 151 dated July 25 2005) has been enacted, thus providing for an administrative fine of € 2000÷5000.

Danger - Attention

The Waste of Electrical and Electronic Equipment may contain dangerous substances with potentially harmful effects on the environment and on people. It is recommended to correctly dispose them.

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SAFETY SIGNALS



Danger signal: indicates that the user should not approach to the blades while the lawn mower is operating.



Safety signal: indicates that the user should carefully read the manual before operating the lawn mower.

INSTALLATION

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PACKAGING AND UNPACKING

The machine is delivered suitably packaged. When unpacking, remove carefully and check component integrity.

All the necessary information for handling is found on the packaging.

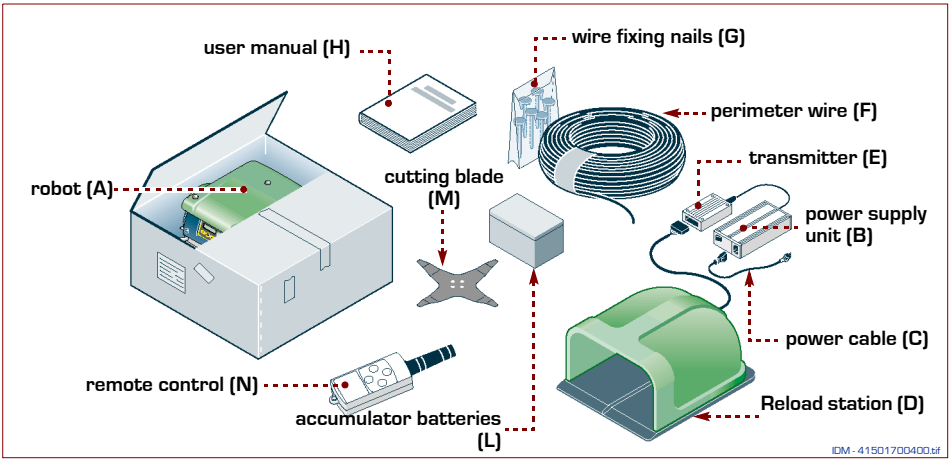
Packaging content

- Robot **(A)**;
- Power supply unit **(B)**
- Power supply cable **(C)**
- Reload station **(D)**
- Transmitter **(E)**
- Perimeter wire hank **(F)**
- Nails **(G)** for wire fixing
- User manual **(H)**
- Lithium or lead accumulator batteries **(L)**: the quantity of batteries can vary relative to the purchase order.
- Blade **(M)**
- Telecommand **(N)** (only for some versions, see "Specifications").

Important

The list includes only the components supplied with the equipment. Check the quantity and the integrity of any optional parts requested.

Keep packaging material for subsequent use.

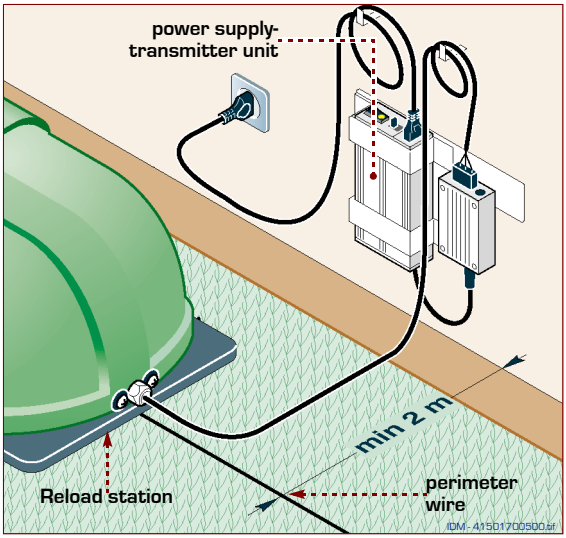


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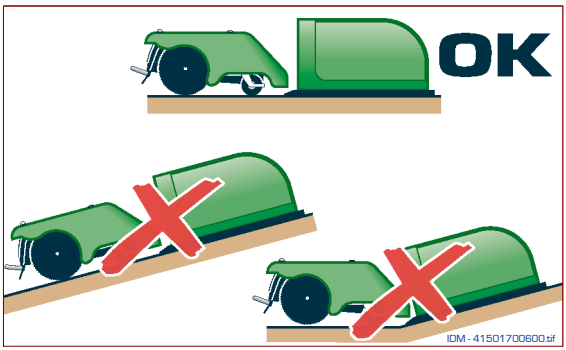
Robot installation does not involve interventions that are difficult to carry out, but requires a minimum of preliminary planning to define the best area to install the charging station, power supply-transmitter group and to lay out the perimeter wire.

Power supplier-transmitter group and recharging station installation area

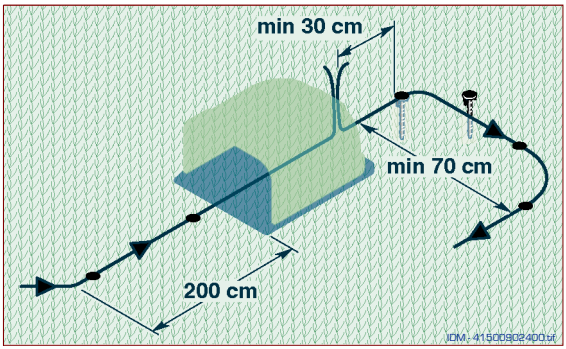
- Power supplier-transmitter group and recharging station must be installed inside the main work area and near to each other.



- The recharging station must be positioned on a flat and stable surface and able to guarantee good drainage to avoid flooding.



- The section of input wire must be rectilinear and aligned perpendicularly to the recharging station for at least 2 m and the output section must be located at least 30 cm from the recharging station; this makes it possible for the robot to enter correctly.



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Important

To permit the robot to re-enter the recharging station, it is necessary to install the same within the work area having larger dimensions, hereafter referred to as the "Main Area".

- Make sure that any irrigators , present in the installation area do not direct a jet of water into the recharging station.
- The transmitter - power supplier group must be in a ventilated position, protected from the atmospheric agents and from direct sunlight.
- The transmitter - power supplier group must not be in direct contact with the ground and damp environments.

Warning - Caution

To carry out electric connection, it is necessary to arrange a power supply socket near the installation area. Make sure that the connection to the power supply complies to the laws in force on the subject.

Important

Is it advisable to install the unit in a closet for electric components (for outdoors or indoors), well ventilated to keep a correct air recirculation and provided with a key closure.

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Warning - Caution

Assure that the access to the power supply-transmitter unit is allowed only to authorized people.

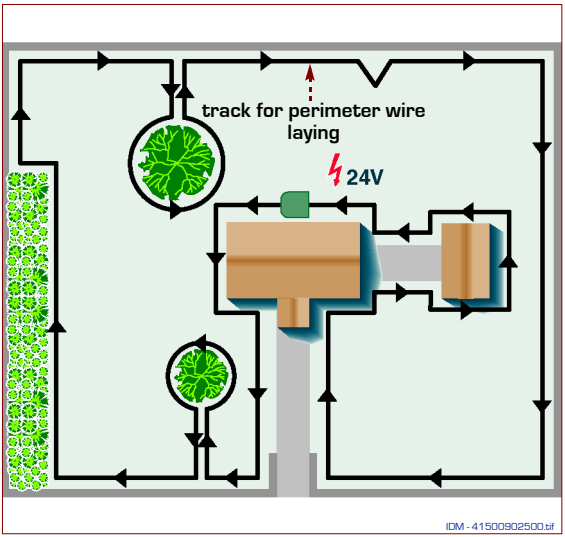
Perimeter wire path definition

- Check the whole surface of the lawn and assess whether it is necessary to divide it in more separated working areas.
- When positioning the perimter wire, respect the rotation direction around the bays (anticlockwise).
- Define the perimeter of the main area, any secondary areas, and carry out the operations in the sequence indicated.

1-Preparation and delimitation of work areas (main and secondary) (see page 14)

2-Perimeter wire installation (see page 17)

3-Installation of recharging station and transmitter-power supplier group (see page 20)



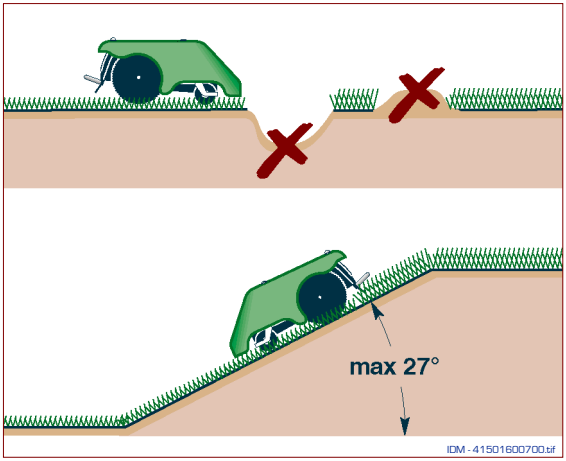
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Arrangement of lawn to trim

1-Check that the lawn to trim is even, and without pits, stones or other obstacles. If so, perform the necessary clearance operations.
If some obstacles cannot be removed, it is necessary to properly mark the areas involved.

2-Check that all the areas of the lawn do not exceed the admissible gradients (see "Specifications"). During the work phase on slopes, when the robot detects the wire the wheels may slide and make it exit from the perimeter area. To avoid this problem, it is possible to install the "Slopes kit" and the "Clawed" wheels.



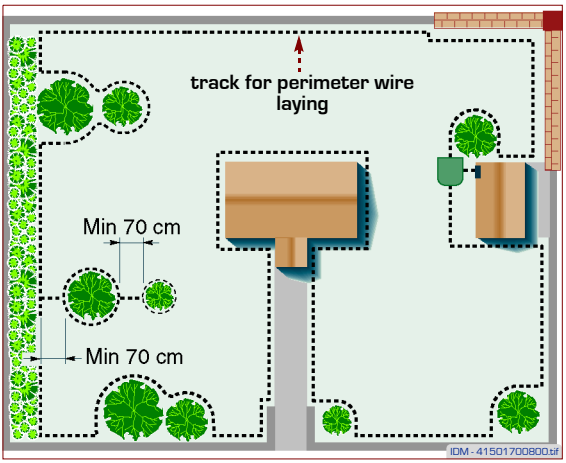
Important

The areas, showing higher gradients than those admitted cannot be trimmed with the robot.

If the proper kit is installed and the conditions of the ground are suitable (solid, without excessive folds, etc.), the robot can work (within certain limits) beyond the maximum admissible gradients.
see figure

Marking of working area

3-Check the whole surface of the lawn and assess whether it is necessary to divide it in more separated working areas.
Before starting installation operations of the perimeter wire, to make them easy to perform, it is recommended to properly signal the whole path evenly with straight lines and to trace any curved line.
The figure represents an example of lawn with the trace for the underground laying of the perimeter wire.

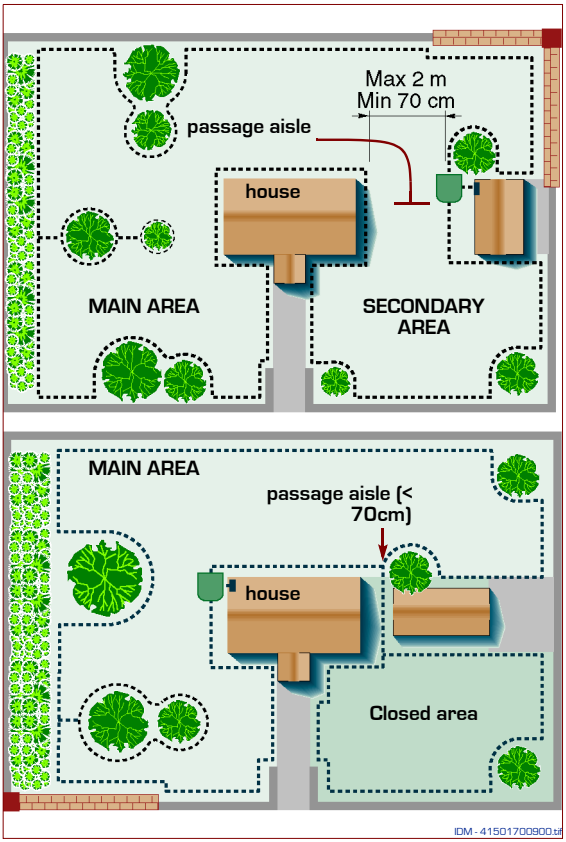


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Important

To ensure the robot can operate, it is necessary for the distance separating the delimitation of two elements to be greater than 70 cm. This distance is required to permit robot passage.

When the connection between one surface and another of the lawn is represented by a passage (corridor) with a width of less than 70 cm and not greater than 2 m, it is necessary to delimit the same with the perimeter wire in a number of work areas that are connected to each other.



GB

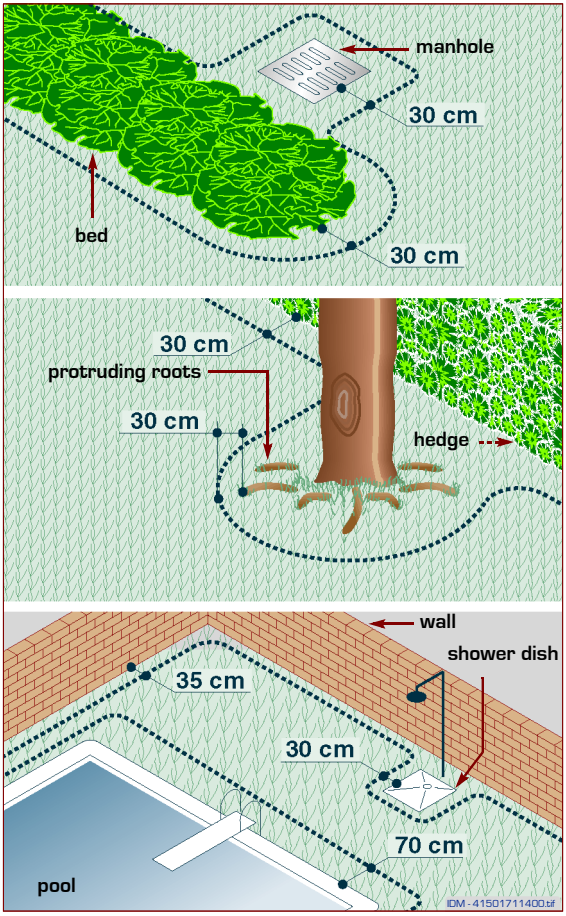
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4-Mark and trace the perimeters of the inside and marginal elements of the working area that obstruct the correct functioning of the robot.

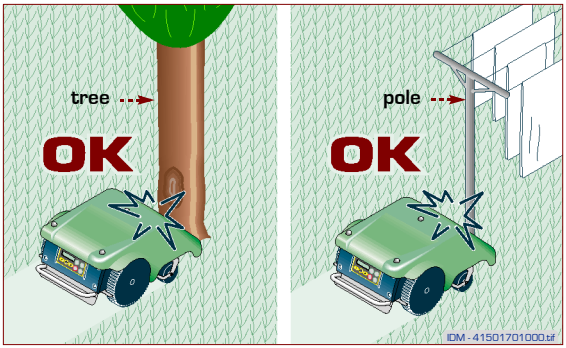
Important

The figure represents an example of inside an marginal elements of the working area and the distances that must be respected for the tracing of the underground laying of the perimeter wire.

Mark and trace the perimeters of all the elements in iron or in other metals (manholes, electric connections, etc.) to avoid interferences to the signal of the perimeter wire.



Do not mark those obstacles (trees, poles, etc.) that do not hamper the normal functioning of the robot.

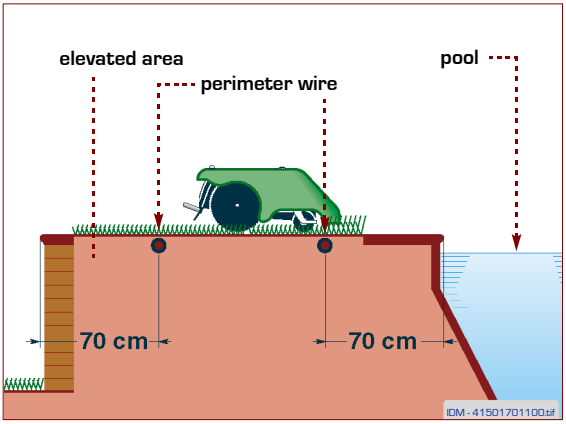


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5-Mark the areas, located in a lower position compared to the lawn surface (pools, areas with significant drops, stairs, etc.) (see example in figure).

Important

Strictly respect the distances to avoid that the robot falls with the risk of breaking and/or seriously getting damaged.



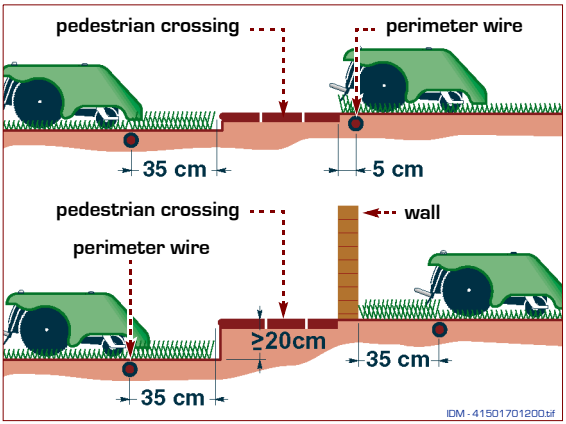
GB

6-Mark and trace the perimeters as shown in the figure.

- With small paths at the same height as the lawn: 5 cm
- With small paths higher than the lawn: 35 cm
- In presence of a fencing wall: 35 cm

Important

The passage paths (at the same level of the lawn), necessary for the robot to pass from one area to the other, must not be marked.

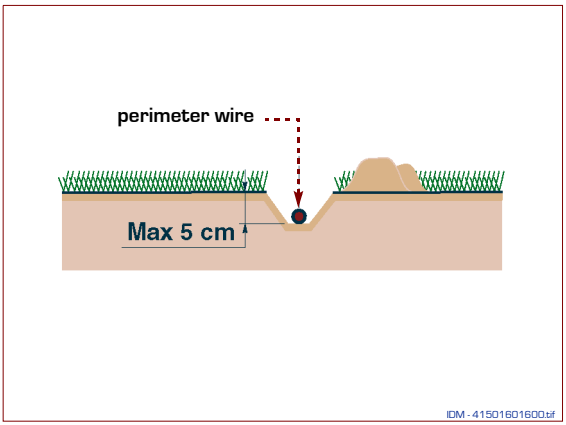


PERIMETER WIRE INSTALLATION

The perimeter wire may be laid underground or on the ground.

Important

Start laying the perimeter wire from the installation area of the recharging station , leave two metres in excess and then cut it as appropriate in the group connections phase.



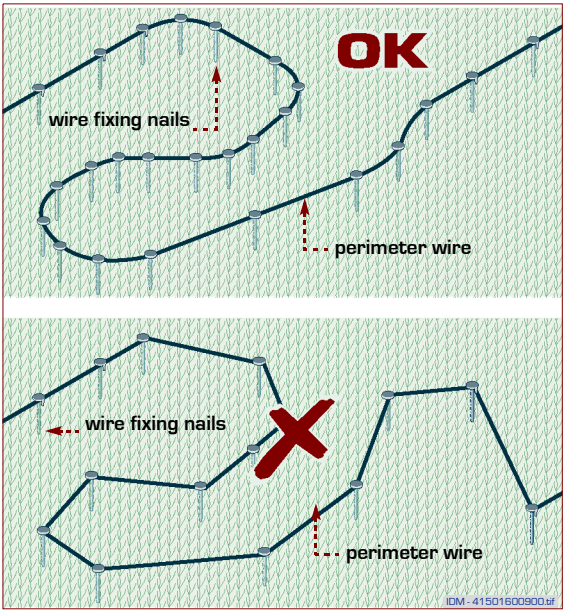
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Wire laid on the ground

1-Place the wire clockwise along the whole path and fix it with the appropriate nails supplied (distance between the nails 1÷2 m).

- When positioning the perimter wire, respect the rotation direction around the bays (anti-clockwise).
- In the straight stretches, fix the wire so that it is not excessively tight, wavy and/or twisted.
- In the not straight stretches, fix the wire so that it does not twist, but so that it takes on a regular bending.



Underground laid wire

1-Dig up the ground evenly and symmetrically compared to the traced line highlighted on the ground.

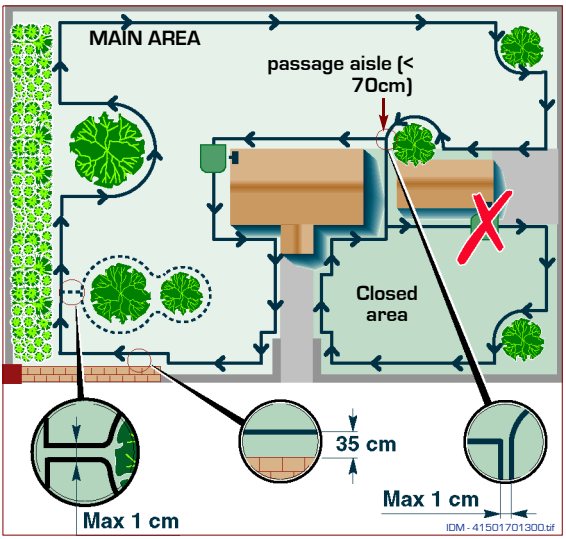
2-Place the wire clockwise along the whole path at the depth of some centimetres (about 2÷3 cm) so not to reduce the quality and the intensity of the signal captured by the robot.

3-When laying the wire, if necessary, block it in some points with the appropriate nails to keep it in position during the ground covering stage.

4-Cover up the whole wire with the soil and make sure that it does not twist, but that it remains straight and that, in the curving stretches, it takes on an even bending.

Important

In the path stretches, where it is necessary to pass two parallel wires (for example: connection between the outside perimeter and the inside marked areas), they must be at a distance, which must not exceed 1 cm.



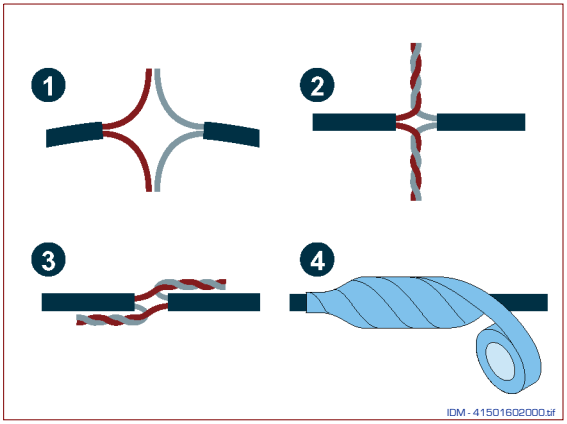
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Perimeter wire joint

Important

In the case of underground wire as well as of ground laid wire, if necessary, properly join it with some other wire, having the same features (see figure).

During the joint stage, it is recommended to use self-amalgamating tape (for example: 3M Scotch 23). Do not use isolating tape or other types of joints (terminals, clamps, etc.).



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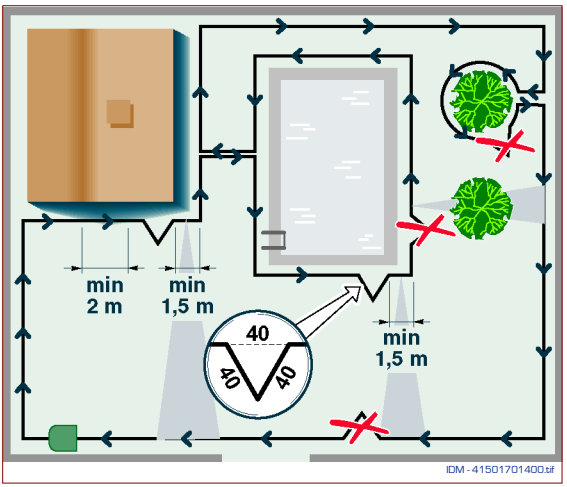
SETTING FOR RAPID ROBOT RE-ENTRY INTO THE RECHARGING STATION

To reduce the times for robot re-entry into the recharging station, carry out settings along the perimeter wire to permit a change of robot direction. In this way, it is possible to reduce the robot re-entry route.

To carry out the re-entry setting, position the perimeter wire along the route< so as to form an equilateral triangle of 40 cm per side.

Carry out the rapid re-entry setting at a point that is preceded by at least 2 m of rectilinear wire and is followed by at least 1.5 m of rectilinear wire.

The setting must not be carried out along the rectilinear section that immediately precedes the recharging station or near to obstacles. Make sure that along the rapid re-entry trajectory, there are no obstacles that can impede rapid re-entry.



Important

The rapid re-entry setting at an incorrect point may prevent the robot from rapidly re-entering the recharging station.

When the robot moves along the perimeter to reach a secondary area it does not detect the rapid re-entry setting.

The illustration provides some useful indications for correctly installing the rapid re-entry setting.

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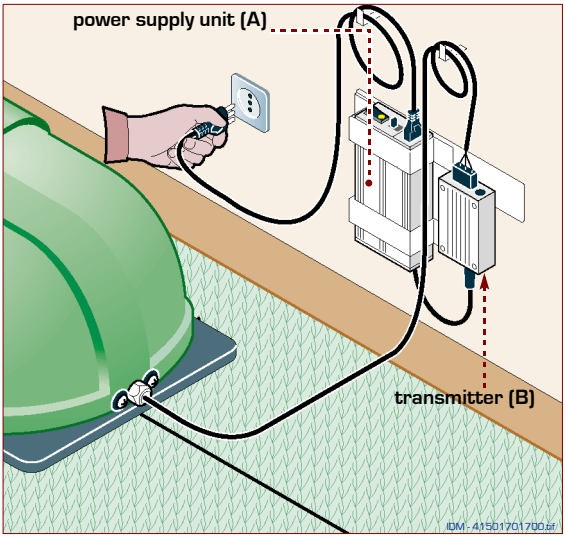
GB

1-Identify the recharging station installation area and the transmitter-power supply group.

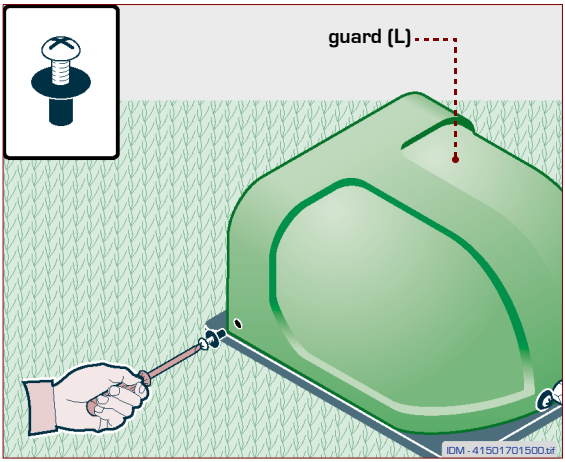
Warning - Caution

Before carrying out any intervention deactivate the general electricity power supply.

2-Installation of the power supply-transmitter unit **(A-B)**.



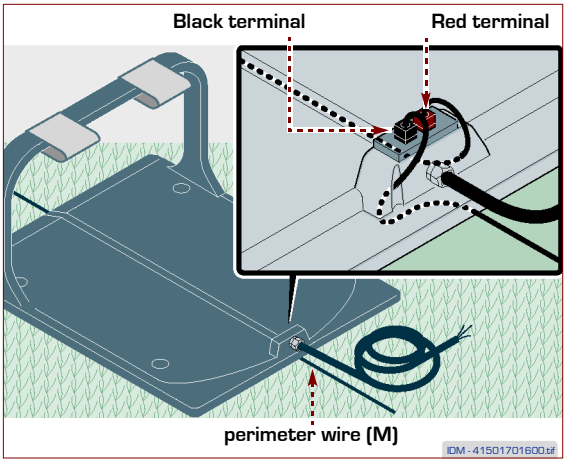
3-Remove the shield **(L)**.



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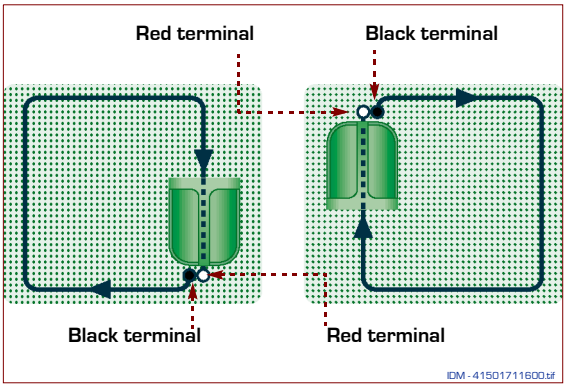
4-Position the base in the predefined area.

5-Insert the perimeter wire **(M)** under the base.

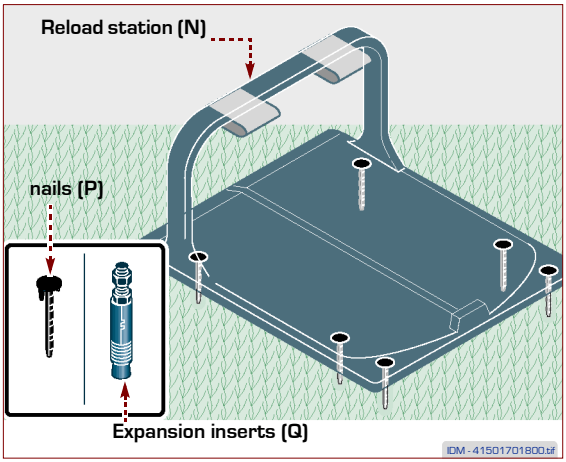


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6-Connect the two ends of the wire to the terminals of the base.

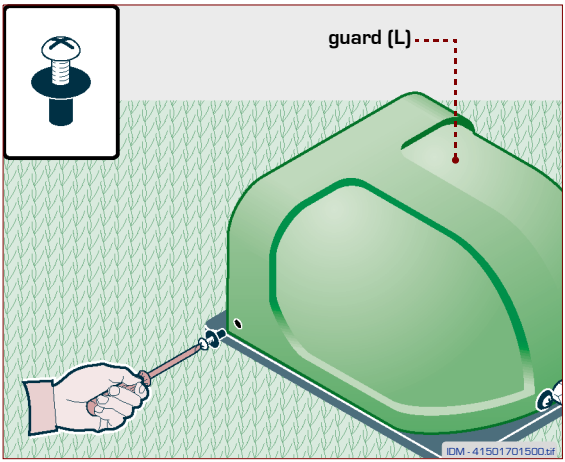


7-Fasten the base **(N)** to the ground with nails **(P)**. If necessary, fasten the base with expansion inserts **(Q)**.



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8-Reposition the shield **(L)**.



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9-Connect the power supply cable **(E)** of the recharging station **(F)** to the transmitter **(B)**.

10-Operate on the cursor **(C)** to select the power supply voltage (110 V or 220 V).

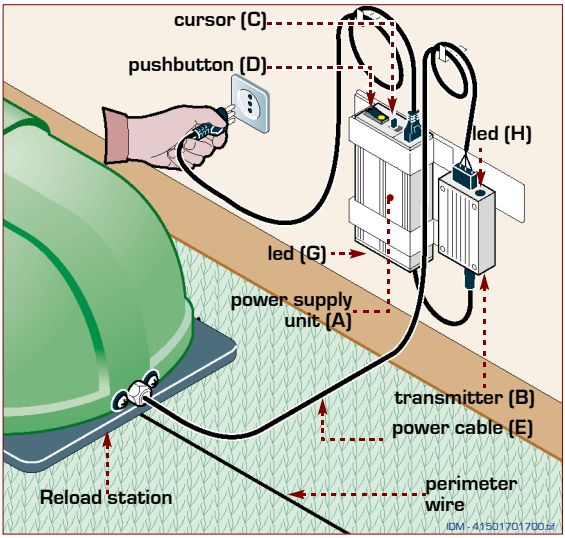
11-Press the button **(D)** of the power supply unit on OFF.

12-Connect the plug of the power supply unit **(A)** to the power socket.

13-Restart the main electric supply.

14-Press the button **(D)** of the power supply unit on ON.

15-If the led **(G)** turns on and the led **(H)** flashes alternately green and orange, the connection is correct. Otherwise, it is necessary to find the defect (see "Troubleshooting").



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BLADE INSTALLATION

1-Before assembling and/or replacing the blade, make sure that the robot has been stopped in safety conditions (see "Robot safety stop").

2-Turn the robot upside down and put it down so not to ruin the covering hood.

Important

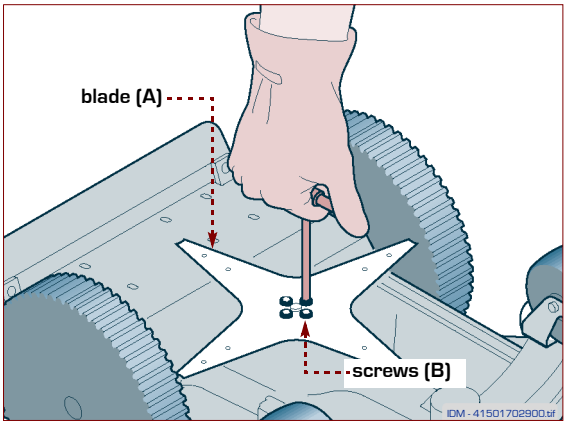
Use protection gloves to avoid the risk of cuts on hands.

3-Assemble the blade **(A)**.

4-Tighten screws **(B)**.

5-Adjust the cutting height (ee "Adjusting the cutting height").

6-Capsize the robot in its functioning position.

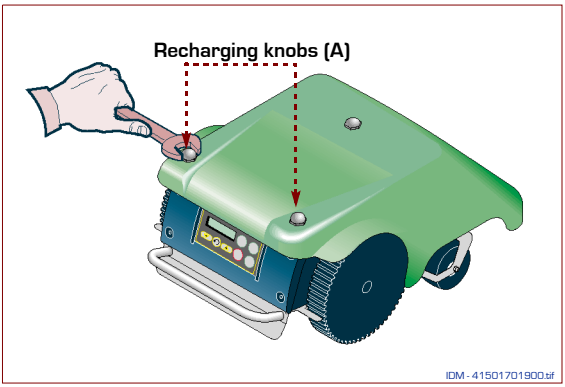


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BATTERY INSTALLATION AND CONNECTION

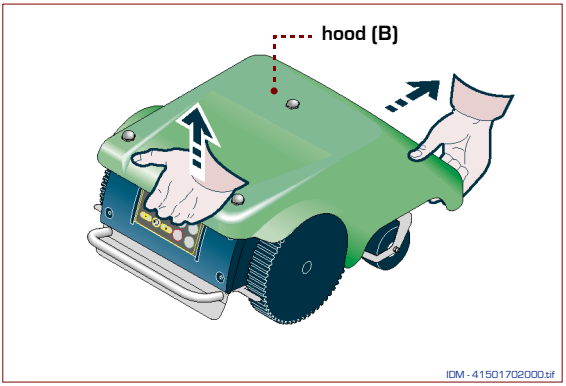
The robot can be energized with two lead batteries or with one or two lithium batteries.
Install the batteries as shown.

1-Undo the knobs **(A)**.



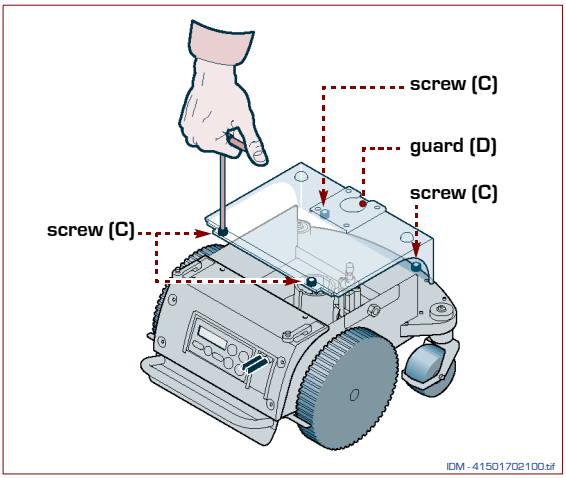
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2-Remove the hood **(B)**.

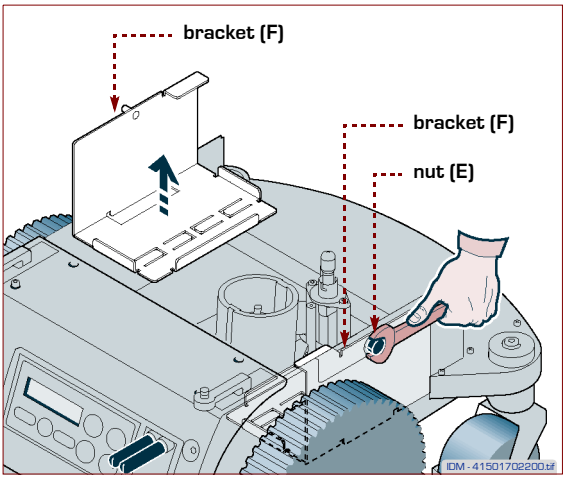


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3-Undo the bolts **(C)** and remove the guard **(D)**.

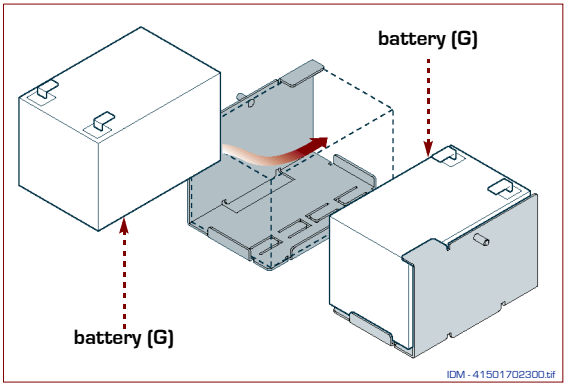


4-Unscrew the nuts **(E)** and unthread the brackets **(F)**.



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5-Insert the batteries **(G)** in the appropriate positions.



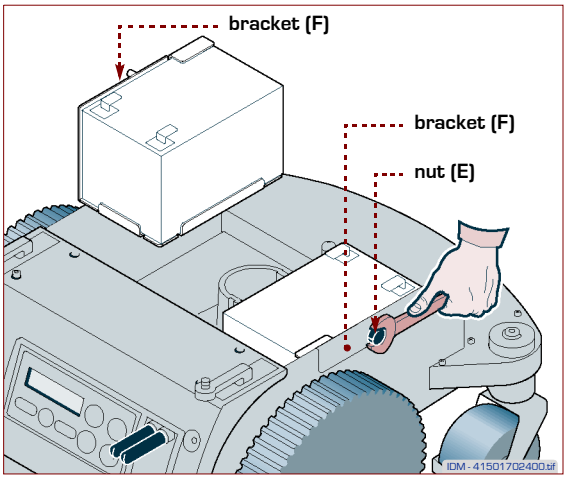
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6-Assemble the brackets **(F)** complete with batteries.

7-Tighten the nuts **(E)**.

Important

The connection must be carried out in accordance with the procedures given, relative to the type of battery installed (lead or lithium).



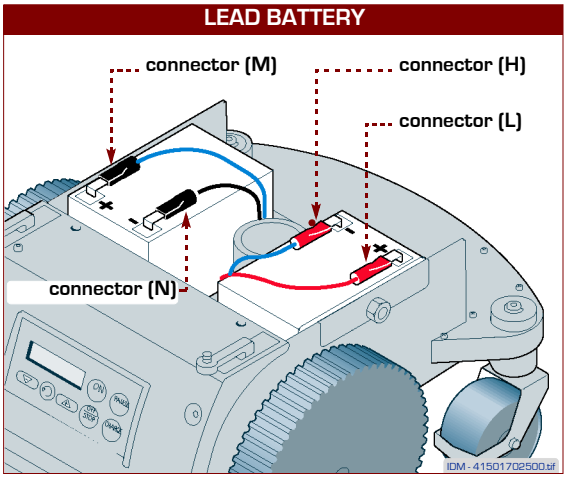
Lead battery connection

1-Connect the connector **(H)** (red colour with blue)

2-Connect the connector **(L)** (red colour with red cable)

3-Connect the connector **(M)** (black colour with blue cable)

4-Connect the connector **(N)** (black colour with black cable)



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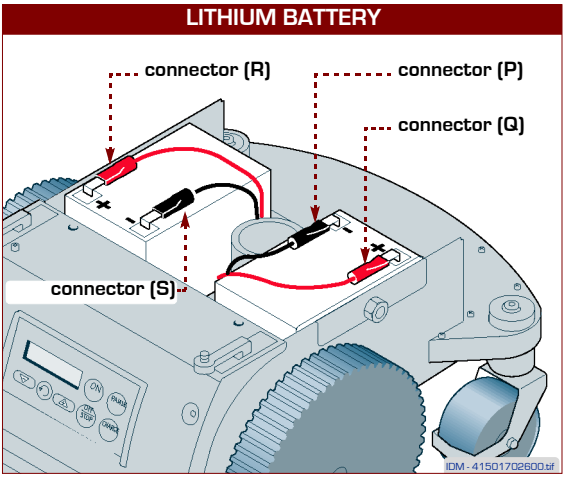
Lithium battery connection

1-Connect the connector **(P)** (black colour with black cable)

2-Connect the connector **(Q)** (red colour with red cable)

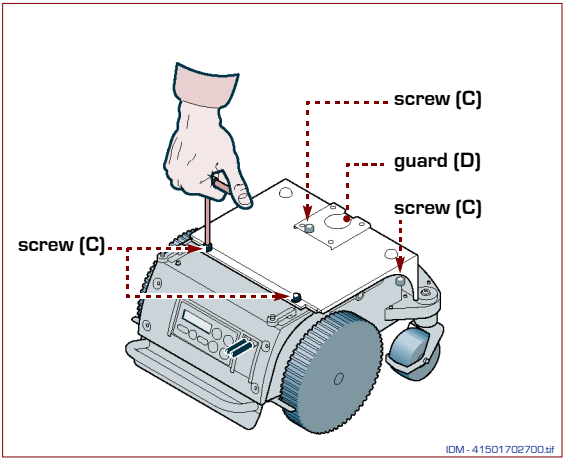
3-Connect the connector **(R)** (red colour with red cable) (only when installing 2 lithium batteries).

4-Connect the connector **(S)** (black colour with black cable) (only when installing 2 lithium batteries).



On completing the batteries connections proceed as indicated.

1-Reassemble body cover **(D)** and tighten screws **(C)**.



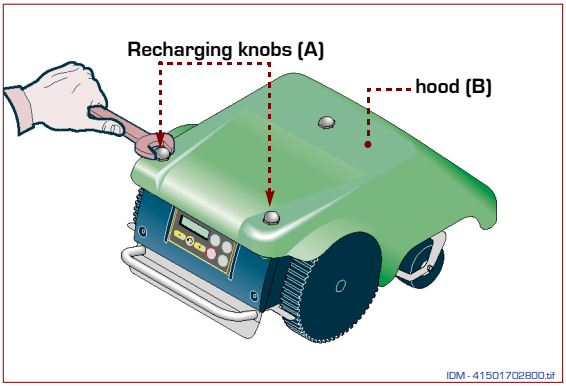
2-Assemble the hood **(B)**.

3-Tighten the knobs **(A)**.

4-Insert the robot inside the recharging station.

Warning - Caution

Before performing the first recharge, check that the power supply unit is suitable for the type of batteries installed (power supply unit for lead or lithium batteries).



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Important

Before using the robot, perform a complete recharge of the new batteries (see "Recharge batteries on first use").

At this point, the robot is ready to use (see "Use and functioning").

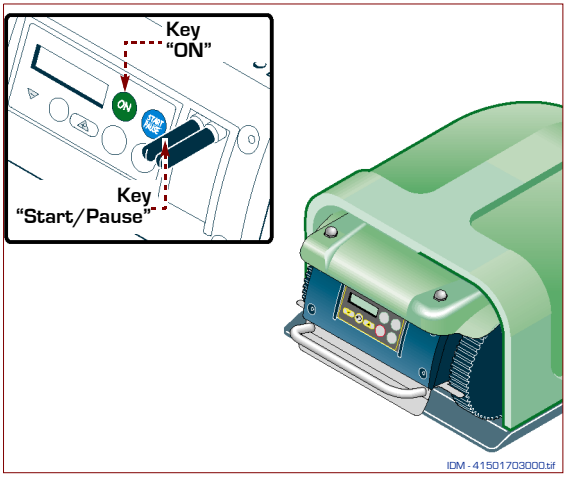
RECHARGE BATTERIES ON FIRST USE

1-Insert the robot inside the recharging station.

2-Press key **ON**.

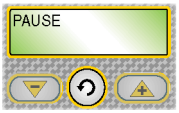
3-After a few seconds the message "LOADING" appears on the display.

4-Press the key **"Start/Pause"**.



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On the display the display the "PAUSE" function appears.
The batteries start the recharging cycle.



5-When recharging has finished it is possible to programme the robot for operational activity (see "Programming mode").

Important

At the first recharge, the batteries must be connected at least 24 hours.

ADJUSTMENTS

ADJUSTMENT REMINDERS

Important

The user must carry out the adjustments according to the procedures described in the manual. Do not perform any adjustments not explicitly indicated in the manual.

Any extraordinary adjustments, not explicitly indicated in the manual, must be carried out only by the staff of the Authorized Assistance Centres of the Manufacturer.

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ADJUSTING THE CUTTING HEIGHT

Before setting the cutting height of the blade, make sure that the robot has stopped in safety conditions (see "Robot safety stop").

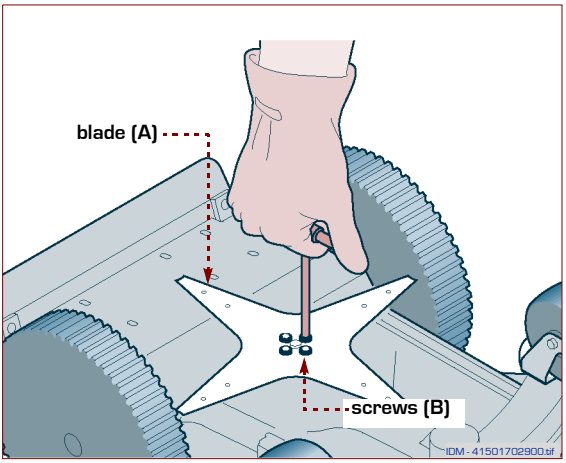
1-Disenable the antitheft alarm to avoid activation (see "Programming mode").

Important

Use protection gloves to avoid the risk of cuts on hands.

2-Turn the robot upside down and put it down so not to ruin the covering hood.

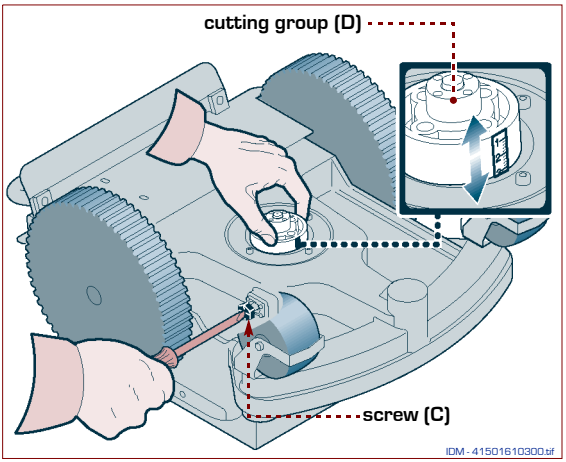
3-Remove the screws **(B)** to remove the blade **(A)**.



4-Unscrew the bolt **(C)**.

5-Lift or lower the cutting group **(D)** to define the height of the mowing you want. The value can be measured using a graduated scale.

6-When the adjustment has been carried out, tighten the screw **(C)** and reassemble the blade.
The greater the excursion of the cutting group **(D)**, the lower the height of the lawn after mowing.



Important

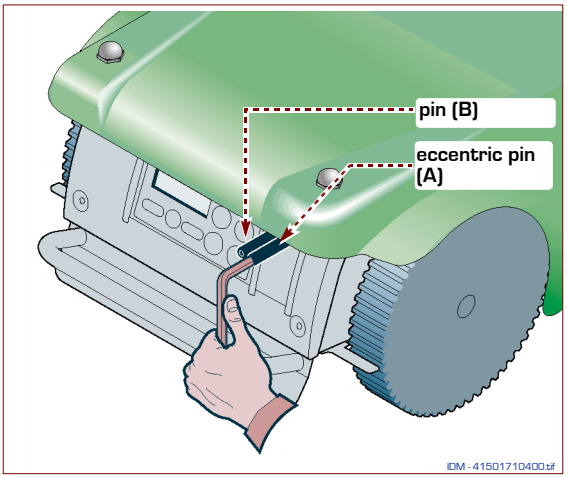
Gradually reduce the cutting height. it is advised to reduce the height by less than 1 cm every 1÷2 days until reaching the ideal height.

7-Capsize the robot in its functioning position.

RAIN SENSOR ADJUSTMENT

1-Stop the robot in safety conditions (see "Robot safety stop").

2-Adjust the distance between the pins **(A-B)** via rotation of the pin **(A)**.



Important

The sensitivity of the sensor increases with a decrease in the distance between the pins. We recommend not bringing the pins. too close together

When the sensor detects rain conditions, the robot carries out its functions as programmed (see "Programming mode").

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USE AND FUNCTIONING

RECOMMENDATIONS FOR USE

Important

When using the robot for the first time, it is recommended to carefully read the whole manual and to be sure to have it completely understood, in particular all the information relating to safety.

Use the equipment only for the tasks authorised by the manufacturer and do not tamper with any device to achieve a different performance from the operating one.

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ROBOT CONTROLS DESCRIPTION

The figure shows the control position on machine board.

A) **Display**: shows all functions.

B) **ON**: press to turn on the lawn mower.

C) **PAUSE**: press to stop the lawn mower, the display is in “stand-by”; it is now possible to program the lawn mower. When pressed again, the lawn mower resumes working. If the key is pressed during battery recharging, the lawn mower does not resume working until the key is pressed again and 'Pause' disappears from the display.

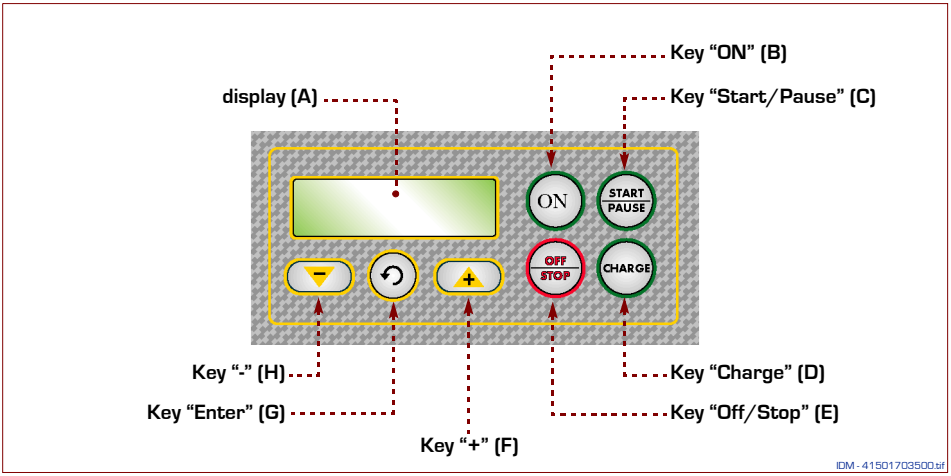
D) **CHARGE**: press to bring the lawn mower back to the base and recharge the battery in advance. If the key is pressed while the lawn mower is recharging, recharging is interrupted and the lawn mower resumes working.

E) **OFF/STOP**: press to stop the lawn mower; the display turns off.

F) **Key "+"**: when working, press to restart the previously stopped blade. When programming press to increase the items indicated by the menu.

G) **ENTER**: when working, press to start the spiral function. When programming press to confirm and save the selection performed.

H) **Key "-"**: when working, press to stop the blade. When programming press to decrease items indicated by the menu.



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REMOTE CONTROL DESCRIPTION

– **Push buttons (A-B)**: they are used to make the robot bend towards right or left.

The robot keeps on bending towards a direction or the other until the relating push button (right or left) is kept pressed. When the push button is released, the robot proceeds along a straight path.

– **"Start" button (C)**: used to activate the robot at a distance (handling, stop and restart of the blade and transfer from one area to another).

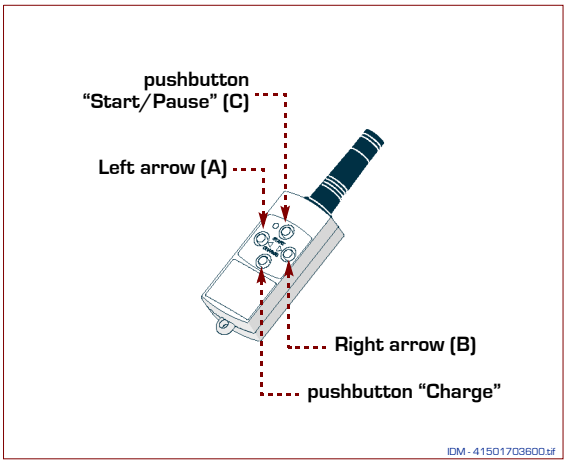
– **"Charge" button (D)**: used to carry out the operations listed.

Remove the equipment from the recharging base and start the work cycle only if it has been programmed.

The equipment must perform a spiral motion (only if switched on and in motion).

Recharge the equipment (only if switched on and in pause mode).

Remove the equipment from the perimeter wire if the equipment follows the wire and does not perform its work correctly.



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Important

The remote control is provided already programmed with a univocal code associated to the referring robot.

If the remote control does not work, because it does not recognize the code associated to the referring robot, it is necessary to carry out its programming (see "Programming mode").

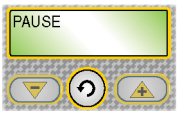
PROGRAMMING MODE

Proceed as indicated.

1-Press key.



2-Insert the password (if requested) (see "Enter password").

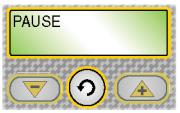


3-If the robot is switched on inside the recharging base, after a few seconds, the message "LOADING" appears on the display.

4-Press key.



On the display the display the "PAUSE" function appears.

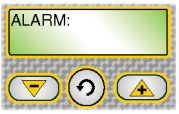


5-Press key.



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The "ALARM" function appears on the display.



Important

To memorise the function displayed, press the key "Pausa" or the key "Enter".

If you press the key "Pausa", "PAUSE" appears on the display. If, however, you press the key "Enter", the next function appears on the display.

The function does not remain memorised if you press key "Stop" before key "Enter" or key "Pausa". The robot deactivates.

ALARM: (only for some versions, see "Specifications") function to enable and disenable the antitheft function.

1-Press one of the keys **"+", "-"** to activate or deactivate the functions.

Enable: used to activate the alarm. If the robot is lifted using the handle, the alarm is triggered. A triple sound signals activation.

Disenable: used to deactivate or switch off the alarm where there is activation. A continual and descending sound indicates deactivation.

Important

The "ALARM" function can be activated, deactivated and stopped only by using the password (see "Enter password").

To ensure the alarm functions correctly, the robot must have its "buffer battery" charged.

To carry out recharging of the "buffer battery" , it is necessary to start up the robot inside the station during the batteries recharging phase or leave it functioning during normal work activity.

The first recharging of the "buffer battery" must be at least 6 hours.

To switch off the alarm it is necesary to proceed as indicated.

2-Switch on the robot.

3-Access the "ALARM" function.

4-Press one of the keys **"+", "-"** to display "Disenable".

5-Insert the password (see "Enter password").

6-Press the key **"Enter"** to switch off the acoustic alarm.

The function "LANGUAGE" appears on the display.



LANGUAGE: function for selecting the messages display language.

1-Press the **"+"** Key and the **"-"** Key to scroll the available languages.

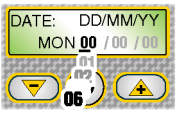
2-Press the key **"Enter"** to confirm the language selected.

The "DATE" function appears on the display.



DATE: function to set solar or legal time, day, month and year.

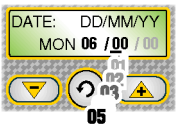
1-Press one of the keys **"+", "-"** to set the day.



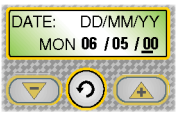
2-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



3-Press one of the keys **"+", "-"** to set the month.

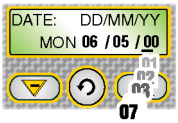


4-Press the key **"Enter"** to confirm. The cursor moves on to the next position.

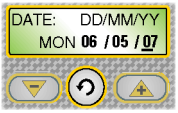


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5-Press one of the keys **"+", "-"** to set the year.



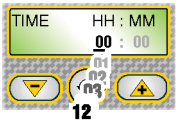
6-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



On the display the function "TIME" appears.



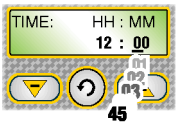
7-Press one of the keys **"+", "-"** to set the time.



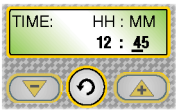
8-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



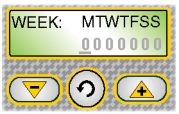
9-Press one of the keys **"+", "-"** to set the minutes.



10-Press the key **"Enter"** to confirm.

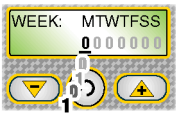


On the display the "SETTIM." function appears.



SETTIM: function for programming the days of robot activity during the week.
The cursor positions itself automatically in the area under the letter "L" (Monday).

1-Press one of the keys **"+", "-"** to programme the weekdays when the robot is operational.



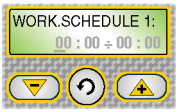
Value **0**: day of rest for the robot.
Value **1**: day of rest for the robot.

2-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



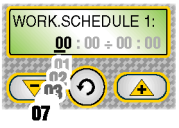
3-Repeat the procedure to set all the weekdays.

When the procedure has been completed (letter "S" for Sunday), on the display the "WORK TIMETABLE 1" function appears.

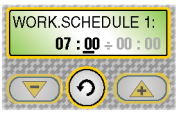


WORK TIMETABLE 1: function for setting the first robot operational time slot during the day.
The cursor positions itself automatically in the area under the first time slot (example from 7:30 to 9:30).

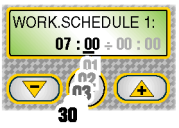
1-Press one of the keys **"+", "-"** to set the mowing start time.



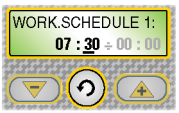
2-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



3-Press one of the keys **"+", "-"** to set the mowing start minutes.



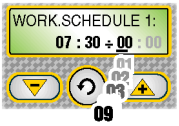
4-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



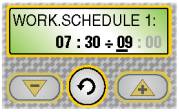
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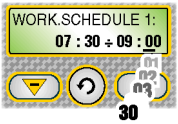
5-Press one of the keys **"+", "-"** to set the mowing end time.



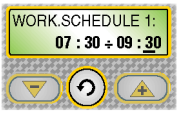
6-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



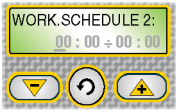
7-Press one of the keys **"+", "-"** to set the mowing end minutes.



8-Press the key **"Enter"** to confirm.



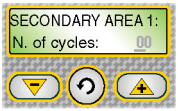
On the display the "WORK TIMETABLE 2" function appears.



WORK TIMETABLE 2: function for setting the second robot activity time slot during the day.

To programme the work timetable for the second time slot of the day (example from 19.00 to 22.00) repeat the same procedure indicated for "WORK TIMETABLE 1".

On completion of the procedure, the "SECONDARY AREA 1 - No. Cycles" function appears on the display.



SECONDARY AREA 1: function to define automatic mowing of a secondary area 1.

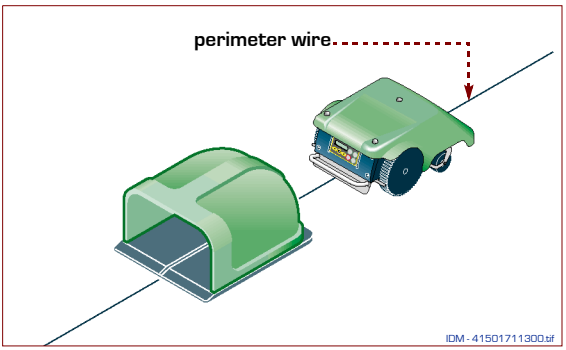
Programme the time that the robot takes to reach the secondary area along the perimeter wire.

Keep to the following instructions to detect the time:

1-Position the robot outside the recharging base in the direction of the wire in output.

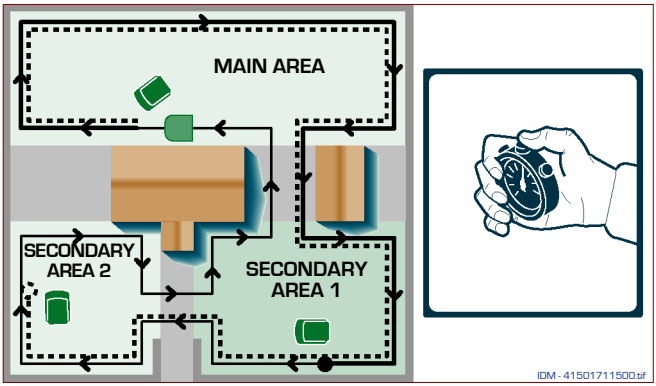
2-Press the keys **ON, PAUSA** and **CHARGE** to start the robot.

3-Measure the time that the robot takes to reach the half-way point of the secondary area route.



Important

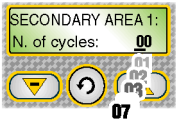
If along the route to reach the secondary area rapid re-entries have been set, it is necessary to manually carry



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the robot immediately after rapid re-entry setting.

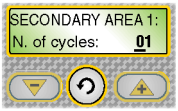
4-Press the **"+"** Key and the **"-"** Key to enter the number of work cycles to perform in the main area, the lawn mower starts then to machine the first secondary area.



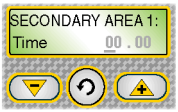
Important

If secondary areas are provided (type 1 or 2), to complete the field of functions relative to the number of cycles and time it is necessary to insert the value 0.

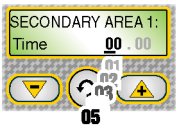
5-Press the key **"Enter"** to confirm.



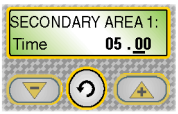
On the display "SECONDARY AREA 1 - Time" appears.



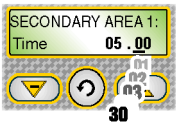
6-Press one of the keys **"+"**, **"-"** to insert the time (in minutes) measured to reach the secondary area.



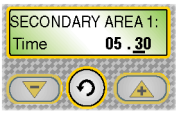
7-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



8-Press one of the keys **"+"**, **"-"** to insert the time (in seconds).



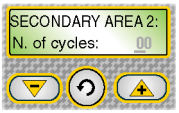
9-Press the key to confirm.



Important

If secondary areas are provided (type 1 or 2), to complete the field of functions relative to the number of cycles and time it is necessary to insert the value 0.

On completion of the procedure, on the display the " SECONDARY AREA 2 - No. Cycles" function appears.



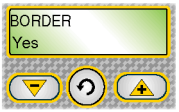
SECONDARY AREA 2: function to define automatic mowing of a secondary area 2.

1-To set the number of cycles and time of the secondary area 2, repeat the same procedure indicated for "SECONDARY AREA 1".

Important

If secondary areas are provided (type 1 or 2), to complete the field of functions relative to the number of cycles and time it is necessary to insert the value 0.

On completion of the procedure, on the display the "PERIMETER" function appears.



PERIMETER: function for setting the robot with the impact or perimeter wire recognition modality.

1-Press one of the keys **"+"**, **"-"** to set the type of delimitation installed along the perimeter.

Select **YES** if the perimeter wire is installed.

Select **NO** if the perimeter wire is not installed.

Select **×2** in case of signal problems (perimeter wire installed).

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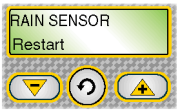
Select **×4** if the problem is not solved by selecting ×2.
Select **×6** if the problem is not solved by selecting ×4.

Important

When switched on, the lawn mower is automatically positioned in the Perimeter YES mode. The NO, ×2, ×4 and ×6 options are disabled when the lawn mower is switched off. Use these options with great care and only in the absence of swimming pools or steep slopes.

GB

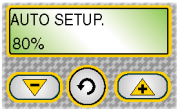
2-Press the key **"Enter"** to confirm.
When the procedure has been completed, on the display the "RAIN SENSOR" function appears.



RAIN SENSOR: function for setting the robot when it rains.

1-Press one of the keys **"+", "-"** to activate or deactivate the functions.
Disenabled: when it rains the robot continues to mow.
Pause: when it rains the robot returns to the station and stays there (in "recharging" modality) until the key "Pause" is pressed.
Restart: when it rains the robot returns to the station and stays there in "recharging" modality. Once the recharging cycle has finished the robot starts again and only starts to mow if it is no longing raining.

2-Press the key **"Enter"** to confirm.
On the display "AUTOPROGRAMMING" appears.



AUTOPROGRAMMING: (only for some versions, see "Specifications") function for automatically reducing the mowing time of the robot on the basis of lawn conditions.

1-Press **"+"** and **"-"** to disable this option or set the percent of mowed lawn grass to be used for auto-programming function start.
The auto-programming function reduces machine work time based on grass conditions. When the lawn surface is cut in a percent higher than the one set in the "Autoprogramm." Menu item, the machine automatically set an idle interval that delays the next exits from the charger base; the higher the percentage of mowed lawn, the longer the machine idle interval.

2-Press the key **"Enter"** to confirm.
On the display the "TELECOMMAND" function appears.

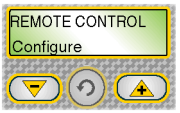


TELECOMMAND: (only for some versions, see "Specifications") function for reprogramming the telecommand.

1-Press one of the keys **"+", "-"** to select one of the functions.
Configure: used to reprogramme the telecommand with the univocal code associated with the reference robot.

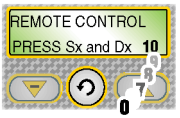
2-To reprogramme the telecommand select "Configure".

3-On the display "TELECOMMAND Configure" appears.



4-Position yourself with the telecommand near the robot.

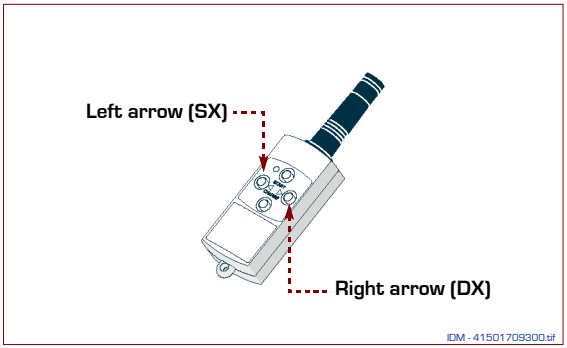
5-Press the key **"Enter"** to confirm.



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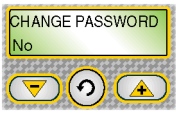
6-Press at the same time the keys "DX", "SX" of the telecommnad within 10 seconds (see figure).
Activation of a double sound indicates that robot and telecommand matching has occurred.

7-Press the key **"Enter"** to confirm.



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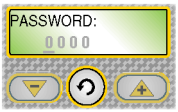
On the display "PASSWORD" appears.



PASSWORD: function for setting or modifying the password.

1-Press one of the keys **"+", "-"** to activate or deactivate the functions.
Yes: used to insert a new password.
No: used to leave the previously inserted password.

2-Press the key "Enter" to confirm.



Important

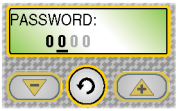
To set or modify the password it is necessary to first insert the previous one and then proceed with insertion of the customised one.

When the purchased, the password inserted by the manufacturer comprises four numbers (0000).

3-Press one of the keys **"+", "-"** to set the first number.

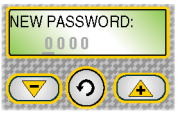


4-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



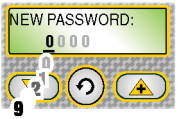
5-Repeat the procedure to set all the numbers of the password.

6-When the procedure has been completed, on the display the function "NEW PASSWORD" appears.

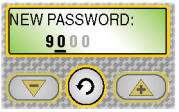


The cursor automatically positions itself in the area under the first number.

7-Press one of the keys **"+", "-"** to set the first number.



8-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



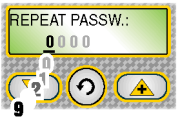
9-Repeat the procedure to set all the numbers of the password.

10-When the procedure has been completed, on the display the "REPEAT PASSWORD" function appears.



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11-Press one of the keys **"+", "-"** to set the first number.



12-Press the key **"Enter"** to confirm. The cursor moves on to the next position.



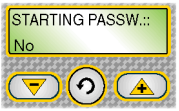
Repeat the procedure to set all the numbers of the password.

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Important

Repetition of the password insertion procedure is used to be sure that it has been set correctly. To avoid forgetting the password, we recommend choosing a combination that is easy to remember.

When the procedure has been completed, on the display the "PASSWORD STARTING" function appears.



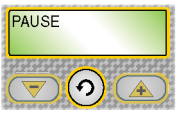
PASSWORD STARTING: function for programming or not the password insertion request each time the robot is switched off and restarted after a period of inactivity (example, remessage for winter season).

1-Press one of the keys **"+", "-"** to activate or deactivate the functions.

No: after a period of inactivity, the robot, with each re-ignition, starts up and begins operations without the password having to be inserted.

Yes: after a period of inactivity, the robot, with each re-ignition, does not start up and does not begin operations until the password has been inserted.

2-Press the key **"Enter"** to confirm.



3-Press the key "Pausa" to memorise the settings and exit the programming phase.

At this point, the robot is ready to use (see "Automatic cycle start").

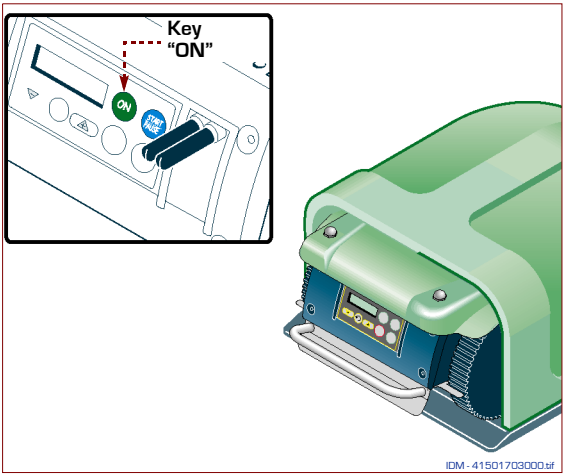
AUTOMATIC CYCLE START

Automatic cycle start-up is carried out when operational activity first starts or after a period of inactivity.

1-Press key **ON**.

2-Insert the password (if requested) (see "Enter password").

3-If the robot is started up for the first time, it is necessary to carry out programming. If, on the other hand, the robot is started up after a period of inactivity, it is necessary to check that the programmed



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functions correspond to the effective status of the surfaces to be mown (e.g. addition of a swimming pool, plants etc.) (see "Programming mode").

4-Adjust the cutting height (see "Adjusting the cutting height").

5-Adjust the sensitivity of the rain sensor (see "Rain sensor adjustment").

6-Position the robot inside the recharging station.

Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

7-After some seconds, on the display the "LOADING" message appears.

8-The robot starts to mow the lawn in accordance with the programmed modalities.

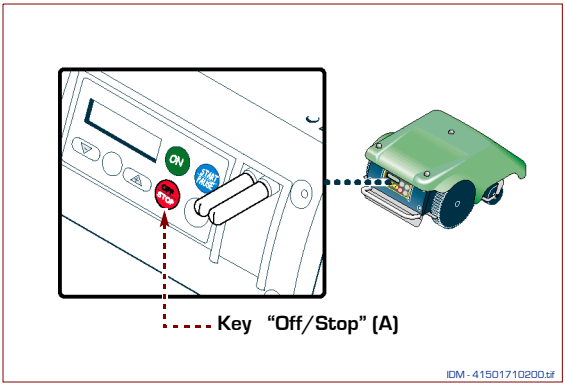
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ROBOT SAFETY STOP

When using the robot, it may necessary to stop it in safety conditions to avoid the ranger to a sudden start of the blade.
Press the key **"Off/Stop" (A)** to stop the robot.

Important

The stop of the robot in safety conditions is necessary in order to carry out maintenance and repair interventions (for example: battery replacement and/or recharge, blade replacement, cleaning operations, etc.).



ROBOT AUTOMATIC STOP

The robot stops automatically when the listed conditions occur.

– Run-down batteries

The robot automatically re-enters the recharging station.

– Rain

When it rains the robot auotmatically enters the recharging station and functions in accordance with programmed modalities (see "Programming mode").

– Trimmed lawn

The sensor detects the mown lawn, the robot automatically re-enters the recharging station and again starts to function in accordance with programmed modalities (see "Programming mode").

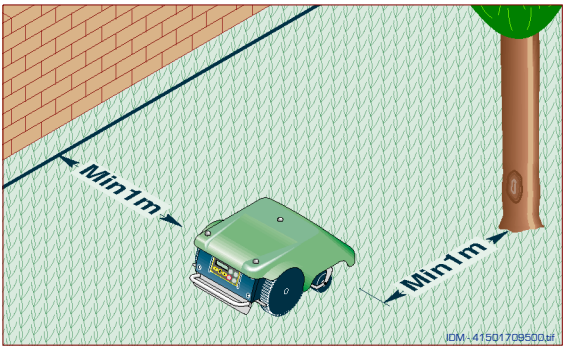
– End of work period

When it has completed its work period, the robot automatically re-enters the recharging station and again starts to function in accordance with programmed modalities (see "Programming mode").

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MANUAL STARTUP AND STOP OF ROBOT (IN CLOSED AREAS)

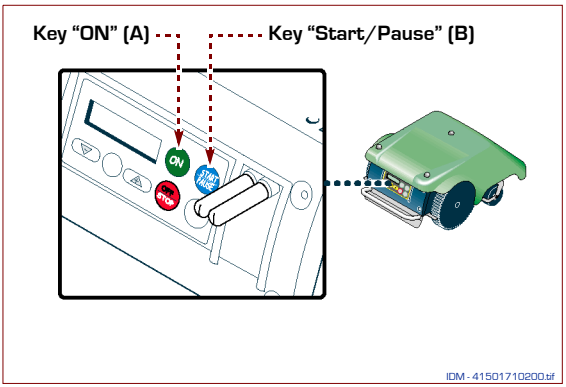
Start-up of the robot in manual mode must be carried out to mow areas that are not included in the programming of surfaces to be mown in automatic modality.
Place the robot inside the working area at least 1 m far from the perimeter wire and from any other obstacle.



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1-Press key **ON (A)**.

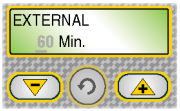
2-Insert the password (if requested) (see "Enter password").



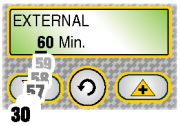
3-On the display the display the "PAUSE" function appears.



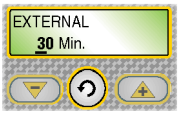
4-Press in sequence the keys **"-", "+".** On the display "EXTERIOR - 60 Min" appears (default value).



5-Press one of the keys **"+", "-"** to set the minutes.



6-Press the key **"Enter"** to confirm.



Important

The value inserted is not memorised.

7-Press the key **"Start/Pause" (B)** to start up the robot.
At the end of the set time, the robot stops in safe conditions near the perimeter wire.

8-Position the robot inside the recharging station.

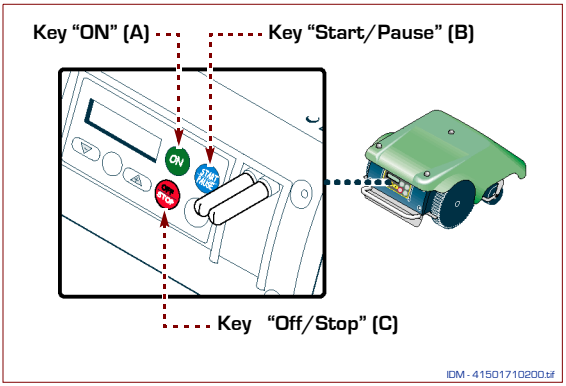
Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

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ROBOT START WITHOUT PERIMETER WIRE

This mode can be carried out with the remote control to perform the trimming of areas completely marked by fences or to trim, for example, small areas, where it was not possible to mark or for practical demonstrations on the functioning of the robot



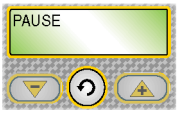
Important

When the robot is used without the perimeter wire, it is recommended to make sure that the robot does not hit into obstacles, corners or blunt objects so to avoid damages or breaks.

1-Press key **ON (A)**.

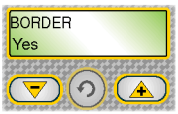
2-Insert the password (if requested) (see "Enter password").

The following message appears of the display:



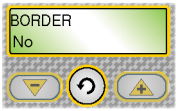
3-Press the key **"Enter"** until displaying "Perimeter" (see "Programming mode").

The following message appears of the display:



4-Press one of the keys **"+", "-"** to set "NO".

5-Press the key **"Enter"** to confirm the selection.



6-Press the key **"Start/Pause" (B)** twice consecutively to start the robot

7-Manoeuvre the robot with the telecommand (see "Remote control description").

Important

It is advisable to operate the robot with the remote control to carry out the trimming inside a narrow area, well visible and to avoid, if possible, making it hit into obstacles.

8-Having finished mowing, press the key **"Off/Stop" (C)** to stop the robot in safely (see "Robot safety stop").

Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

9-Position the robot inside the recharging station.

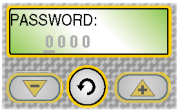
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ENTER PASSWORD

The robot can be protected by a password comprising four figures which the user can enable, disenable and customise (see "Programming mode").

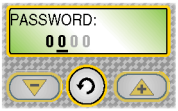
1-The following message appears of the display:



2-Press one of the keys **"+", "-"** to set the first figure.



3-Press the key **"Enter"** to confirm. The cursor moves on to the next position.

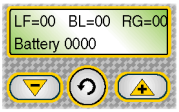


4-Repeat the procedure to set all the numbers of the password.

At this point, the robot is ready to use.

DISPLAY VISUALISATION IN WORK PHASE

While the lawn mower is operating, the following data are displayed:



- Left wheel motor speed
- Cutting blade motor speed
- Right wheel motor speed
- Battery voltage.

When the lawn mower is being recharged, the message "RECHARGE" appears in the display.

If the lawn mower is out of its work timetable, the display shows the day and time of work start.

PROLONGED INACTIVITY AND SERVICE RESTART

In case of prolonged inactivity of the robot, it is necessary to carry out a series of operations to assure its correct functioning when it is reused.

1-Carefully clean the robot and the recharging station (see "Robot cleaning").

2-Carry out battery recharge at least once a month for lead batteries and every 5 months for lithium batteries (see "Recharge batteries for extended inactivity").

Important

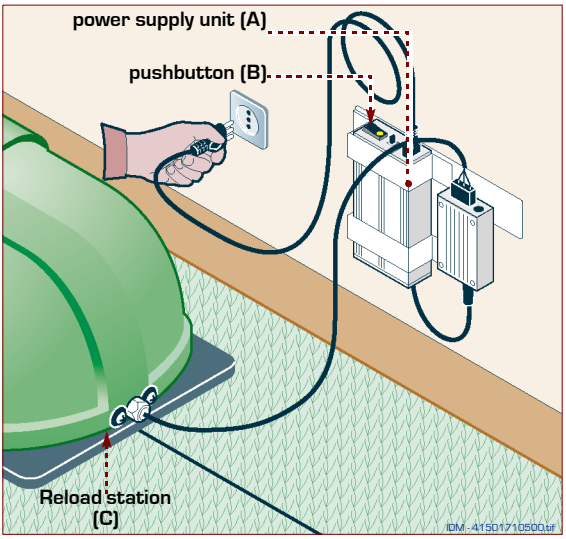
If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

3-Place the robot in a safe and dry place, at a suitable room temperature 10-30 °C and not easily reachable by unfamiliar people (children, animals, etc.).

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4-Disconnect the plug of the power supply unit **(A)**.

5-Cover the recharging station **(C)** to prevent any material entering it (leaves, paper etc.) and to protect the contact plates.



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Service restart

Before restarting the robot after a long inactivity, proceed as shown.

1-Connect the plug of the power supply unit **(A)** to the power socket.

2-Restart the main electric supply.

3-Press the button **(B)** of the power supply unit on ON.

Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

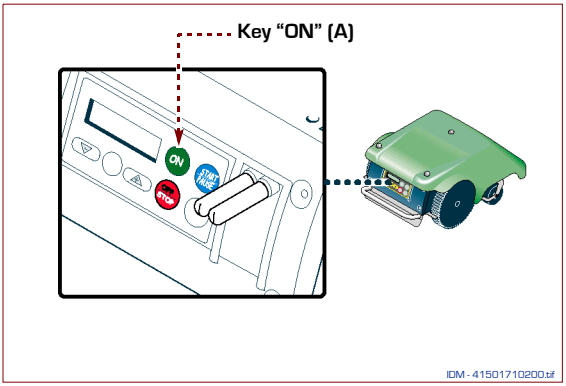
4-Position the robot inside the recharging station.

5-Press key **ON (A)**.

6-Insert the password (if requested) (see "Enter password").

7-After a few seconds the message "LOADING" appears on the display.

8-At this point, the robot is ready to use (see "Programming mode").

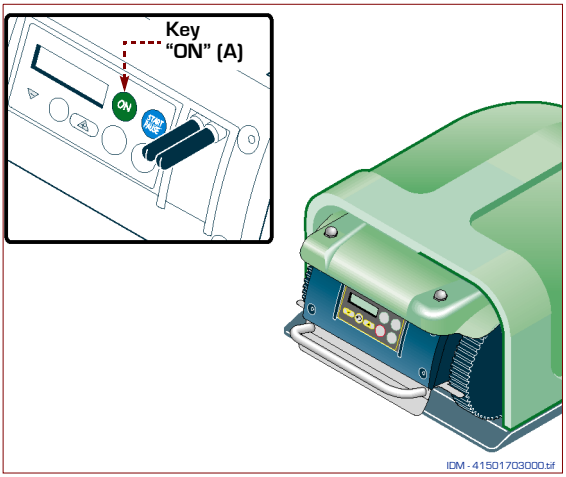


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RECHARGE BATTERIES FOR EXTENDED INACTIVITY

Carry out battery recharge at least once a month for lead batteries and every 5 months for lithium batteries.

1-Power the recharging base and make sure that the plates are clean.



Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

2-Position the robot inside the recharging station.

3-Press key **"ON" (A)**.

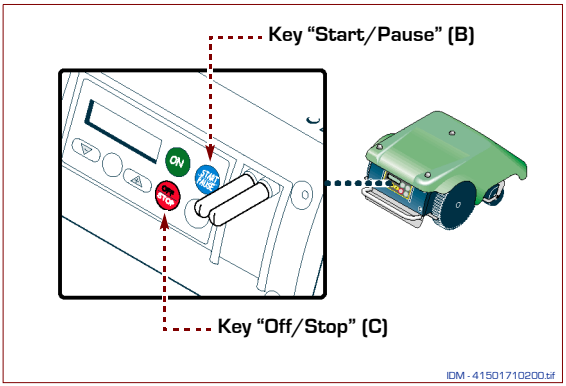
4-Insert the password (if requested) (see "Enter password").

5-After a few seconds the message "LOADING" appears on the display.

6-Press key **"Start/Pausa" (B)**. The batteries start the recharging cycle.

7-On completion of recharging (approx. 6 hours) press key **"Off/Stop" (C)**.

8-Place the robot in a safe and dry place, at a suitable room temperature 10-30 °C and not easily reachable by unfamiliar people (children, animals, etc.).



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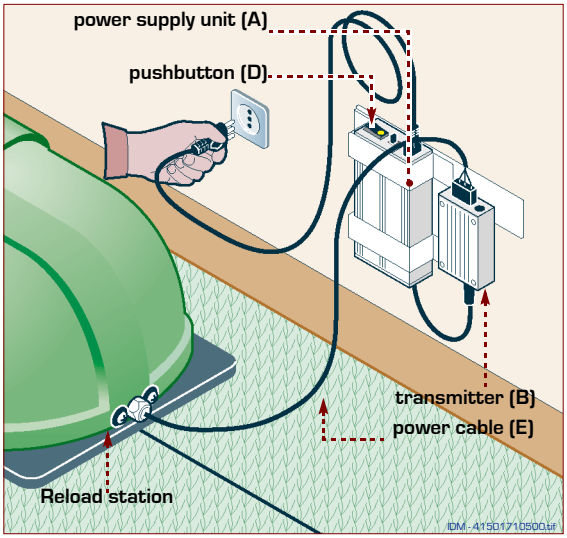
Batteries reset with winter recharging kit (optional)

The kit makes it possible to recharge the batteries or keep them charged, during the winter period, without using the recharging station.

1-Press the button **(D)** of the power supply unit on OFF.

2-Disconnect the plug of the power supply unit **(A)**.

3-Disconnect the cable **(E)** from the transmitter group **(B)**.



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4-Connect the cable for the kit **(F)** to the transmitter group **(B)**.

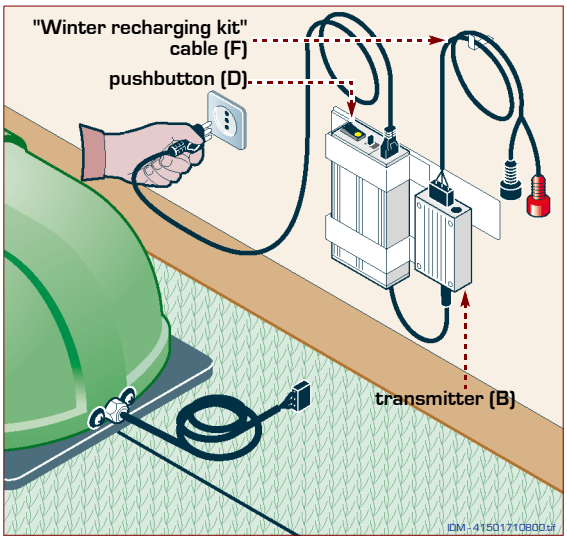
5-Connect the plug of the power supply unit.

6-Press the button **(D)** of the power supply unit on ON.

Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

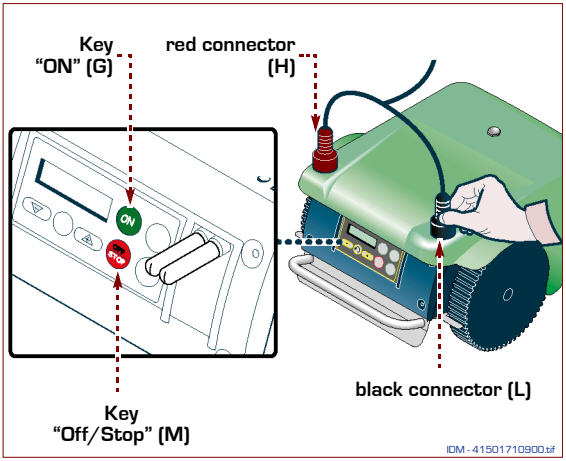
7-Position the robot near the transmitter-power supply group.



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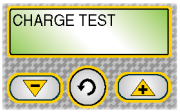
8-Press key **ON (G)**.

9-Insert the password (if requested) (see "Enter password").

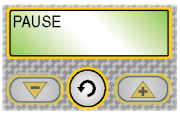


GB

10-The following message appears of the display:



11-After some seconds, the message appears on the display.



12-Connect the connector **(H)** (red, polarity +).

13-Connect the connector **(L)** (black, polarity -).

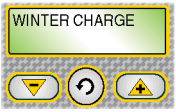
Warning - Caution

A wrong connection of the poles may irreversibly damage the batteries and the electronic circuits.

Important

The connection of the connectors must be carried out within 30 seconds from activation of the key "ON". Once that period has elapsed, the robot automatically switches off. Repress key "ON" to complete the operation.

14-the following message appears of the display:
The batteries start the recharging cycle.



15-On completion of recharging (approx. 6 hours) press key **"Off/Stop" (M)**.

16-Disconnect the connector **(H)** (red, polarity +).

17-Disconnect the connector **(L)** (black, polarity -).

18-Place the robot in a safe and dry place, at a suitable room temperature 10-30 °C and not easily reachable by unfamiliar people (children, animals, etc.).

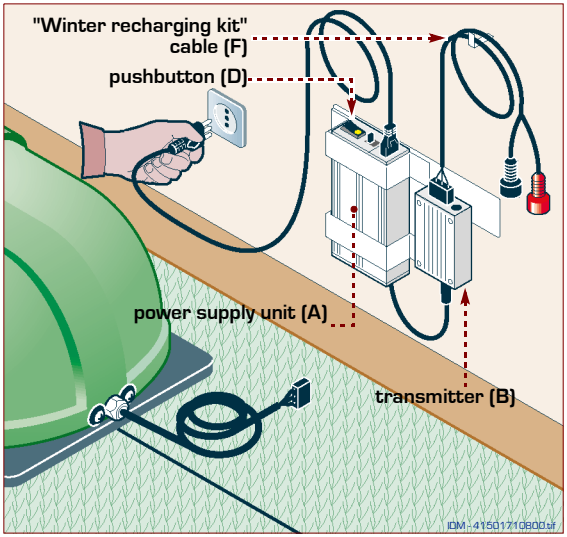
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Once the winter season has ended, disconnect the kit and reactivate the recharging station.

1-Press the button **(D)** of the power supply unit on OFF.

2-Disconnect the plug of the power supply unit **(A)**.

3-Disconnect the cable **(F)** from the transmitter group **(B)**.



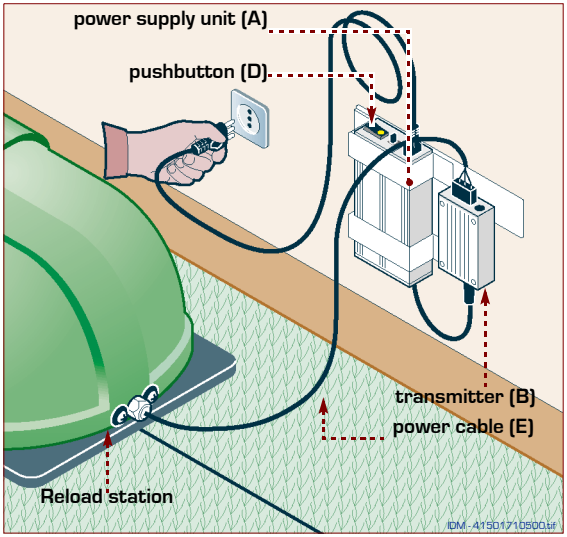
GB

4-Connect the cable for the kit **(E)** to the transmitter group **(B)** (see "Installation of recharging station and transmitter-power supplier group").

5-Connect the plug of the power supply unit **(A)**.

6-Press the button **(D)** of the power supply unit on ON.

7-Position the robot inside the recharging station.



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OPERATING REMINDERS

Here below are some indications to follow during the use of the robot.

- Even after a proper reading of instructions, at its first use, simulate some test moves to detect the controls and the main functions.
- Check that the nuts and bolts securing all main parts are tight.
- Carry out a frequent trimming of the lawn to avoid an excessive growing of the grass.
- Do not use the robot to trim grass higher than 10 cm.
- If the lawn is equipped with an automatic irrigation system, programme the robot so that it re-enters the recharging station at least 1 hour before the start of irrigation.
- Check the ground gradient and make sure that it does not exceed the maximum values allowed so that the use of the robot does not cause dangers.
- The lawn mower should be programmed in order to prevent it from working more than necessary; always consider the different growth of the grass according to the season in order to avoid a useless wear of the lawn mower and a decrease in the battery life.

ORDINARY MAINTENANCE

MAINTENANCE REMINDERS

Important

During maintenance operations, use the individual protections indicated by the Manufacturer, especially when intervening on the blade.

Before performing maintenance operations, make sure that the robot has stopped in safety conditions (see "Robot safety stop").

PROGRAMMED MAINTENANCE INTERVALS CHART

Frequency	*Component*	*Type of operation*	*Reference*
Every week	Blade	Clean and check the efficiency of the blade	See "Robot cleaning"
		If the blade is bent due to an impact or if it is worn-out, replace it.	See "Replace the blade"
	Battery recharge knobs	Clean and remove any oxidations	See "Robot cleaning"
	Contact plates	Clean and remove any oxidations	See "Robot cleaning"
Every month	Robot	Carry out cleaning	See "Robot cleaning"

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1-Stop the robot in safety conditions (see "Robot safety stop").

Important

If the antitheft alarm is enabled, disenable it before lifting the robot (see "Programming mode").

2-Clean all the outside surfaces of the robot with a sponge soaked in warm water and neutral soap and rinse properly.

3-Do not use solvents or benzine so not to damage the varnished surfaces and the plastic components.

4-Do not wash the inside parts of the robot and do not use water jets in pressure so not to damage the electric and the electronic components.

Warning - Caution

In order not to irreversibly damage the electric and electronic components, do not plunge the robot, partially or completely in water, as it is not watertight.

5-Check the lower part of the robot (cutting blade area and wheels) and remove the deposits and/or residues that might obstruct the correct functioning of the robot.

6-To remove the deposits and/or other residues from the blade, use a suitable brush.

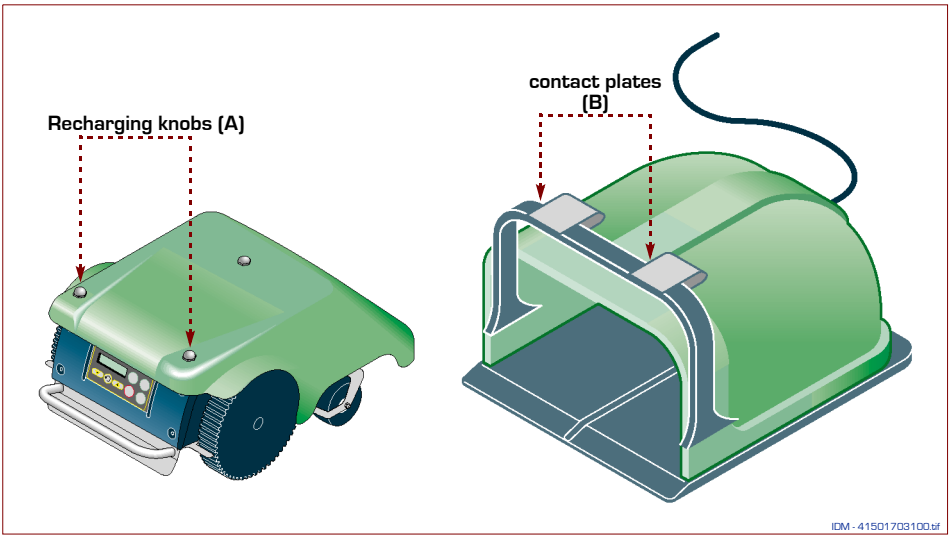
Warning - Caution

Use protection gloves to avoid the risk of cuts on hands.

7-Clean the batteries recharging knobs **(A)**, contact plates **(B)** and eliminate any oxidation or residues due to electrical contacts with a dry cloth and, if necessary, with fine grain abrasive paper.

8-Clean the interior of the recharging station from any accumulated residues.

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TROUBLESHOOTING

The information given below is designed to help identify and correct any faults and malfunctions that may occur during operation.
Some failures may be resolved by the user; others require precise technical skills or special abilities and must be exclusively resolved by qualified personnel with certified experience, achieved in the specific intervention field.

GB

	Problem	*Causes*	*Solutions*
	The antitheft alarm remains operative	Alarm activated	Deactivate the alarm (see "Programming mode")
	Antitheft alarm does not work	Alarm deactivated	Activate the alarm (see "Programming mode")
		"Buffer battery" flat	Carry out battery recharge. To carry out recharging of the "buffer battery" , it is necessary to start up the robot inside the station during the batteries recharging phase or leave it functioning during normal work activity. The first recharging of the "buffer battery" must be at least 6 hours. **Important** **If the problem persists, contact the assistance service**

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	Problem	Causes	Solutions
	The robot is very noisy	Damaged cutting blade	Replace the blade with a new one (see "Replace the blade")
		Cutting blade flooded by residues (tapes, ropes, plastic fragments, etc.).	Stop the robot in safety conditions (see "Robot safety stop") **Caution** **Use protection gloves to avoid the risk of cuts on hands.** Remove the flood cause from the blade.
		The start of the robot occurred with obstacles being too close (less than m away) or in presence of unexpected obstacles (fallen branches, forgotten objects, etc.).	Stop the robot in safety conditions (see "Robot safety stop")
			Remove the obstacles and restart the robot (see "Manual startup and stop of robot (in closed areas)")
		Electrical motor malfunction	Get the motor repaired or replaced by the nearest authorized Assistance centre.
		Grass too high	Increase the cutting height (see "Adjusting the cutting height")
			Carry out preliminary cutting of the area with a normal lawn mower.
	The robot does not position itself correctly inside the recharging station	Erroneous position of the perimeter wire or recharging station power supply cable.	Check the conneciton of the recharging station (see "Installation of recharging station and transmitter-power supplier group")
		Ground subsidence near the recharging station	Position the recharging station on a flat and stable surface 8see "Equipment installation planning")
	The robot behaves in an anomalous manner around the flower beds.	Perimeter cable incorrectly placed.	Relocate the perimeter wire correctly (anticlockwise direction) (see "Perimeter wire installation")
	The robot works at erroneous times	Wrong clock setting	Reset the robot clock (see "Programming mode")
		Wrong work timetable setting	Reset the work timetable (see "Programming mode")
	The robot does not carry out rapid re-entry	Rapid re-entry not correctly set	Check the exact setting of the rapid re-entry (see "Setting for rapid robot re-entry into the recharging station")

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	Problem	Causes	Solutions
	The working area is not completely trimmed	Insufficient work hours	Extend the work timetable (see "Programming mode")
		Cutting blade with deposits and/or residues	Stop the robot in safety conditions (see "Robot safety stop") **Caution** **Use protection gloves to avoid the risk of cuts on hands.** Clean the cutting blade
		Cutting blade worn out	Replace the blade with an original spare part (see "Replace the blade")
		Working area too big compared to the actual capacity of the robot.	Ad just the working area (see "Specifications")
		Batteries are about to deplete their life cycle.	Replace the batteries with original spare part (see "Batteries replacement")
		The batteries do not recharge completely.	Clean and eliminate any oxidation from the batteries contact points (see "Robot cleaning"). Recharge the batteries for at least 12 hours.
	Secondary area not completely mown	Wrong programming	Correctly programme the secondary area (see "Programming mode")
	On the display "No Signal" appears.	The perimeter wire is not correctly connected (broken wire, lack of electric connection, etc.).	Check the functionality of the electricity supply, correct connection of the transmitter-power supply group and that of the recharging station (see "Installation of recharging station and transmitter-power supplier group")

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	Problem	Causes	Solutions
	On the display "Off Perimeter" appears	Excessive ground slope.	Mark the area with excessive gradient (see "Equipment installation planning"). Install the Kit for working on slopes greater than 27° (see "Specifications").
		Perimeter cable incorrectly placed	Check that the wire is installed properly (too deep, close to metal objects, distance between the wire that marks two elements less than 70 cm, etc.) (see "Equipment installation planning")
		Perimeter wire marking inside areas (beds, bushes, etc.) placed clockwise.	Relocate the perimeter wire correctly (anticlockwise direction) (see "Perimeter wire installation")
		Overheated power supply unit	Adopt suitable solutions to reduce the temperature of the power supply unit (air or change the installation area, etc.) (see "Equipment installation planning")
		The wheel drive is not correct	Check and, if necessary, correctly fasten the wheels.
	On the display "Blackout" appears.	Power supply break to the transmitter	Restart the robot
		Overheated power supply unit	Adopt suitable solutions to reduce the temperature of the power supply unit (air or change the installation area, etc.) (see "Equipment installation planning")
		Presence of other nearby installations	Contact an Assistance Centre authorized by the Manufacturer
	On the display "Wheel motor error" appears	Rough ground or with obstacles that hinder movement	Check that the lawn to trim is even, and without pits, stones or other obstacles. If so, perform the necessary clearance operations (see "Preparation and delimitation of work areas (main and secondary)")
		One or both motors, starting the wheel transmission, in breakdown	Get the motor repaired or replaced by the nearest authorized Assistance centre.
	On the display "Bump Error" appears	The shock sensors are blocked	Remove the hood and check that the sensors are functioning.

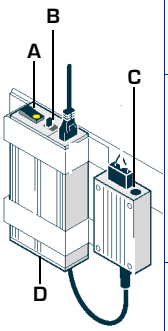
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	Problem	Causes	Solutions
	On the display "Sync Error" appears	The robot receiver does not recognise the signal	Switch off the equipment and switch it on again. If the problem persists, contact the assistance service
	On the display "Tall grass" appears	Damaged cutting blade	Replace the blade with a new one (see "Replace the blade")
		Cutting blade flooded by residues (tapes, ropes, plastic fragments, etc.)	Stop the robot in safety conditions (see "Robot safety stop") **Caution** **Use protection gloves to avoid the risk of cuts on hands.** Remove the flood cause from the blade.
		The start of the robot occurred with obstacles being too close (less than m away) or in presence of unexpected obstacles (fallen branches, forgotten objects, etc.).	Stop the robot in safety conditions (see "Robot safety stop")
			Remove the obstacles and restart the robot (see "Manual startup and stop of robot (in closed areas)")
		Electrical motor malfunction	Get the motor repaired or replaced by the nearest authorized Assistance centre.
		Grass too high	Increase the cutting height (see "Adjusting the cutting height"). Carry out preliminary cutting of the area with a normal lawn mower.
	The telecommand does not function	Wrong programming	Correctly programme the telecommand (see "Programming mode")
		The led on the telecommand does not come on	Remove the battery and fit the replacement (see "Telecommand batteries replacement the blade")
	After installation of the robot, disturbances are noticed relative to domestic appliances (radio, television, electric gates etc.).	Interference with other electrical devices	Contact an Assistance Centre authorized by the Manufacturer

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	Problem	Causes	Solutions
	The led **(D)** of the power supply unit does not turn on.	There is no power voltage	Check that the position of the cursor **(B)** matches with the power voltage and that the push button **(A)** is on "ON".
			Check that the power supply unit is correctly connected to the power socket.
		Blown fuse	Get the fuse replaced by the nearest authorized Assistance centre.
	The led **(C)** (green) of the transmitter is on.	Interrupted perimeter wire	Stop the robot in safety conditions (see "Robot safety stop"). Press the button **(A)** of the power supply unit on OFF. Carry out the joint of the perimeter wire.
	The led **(C)** (orange) of the transmitter turns on repeatedly with consecutive flashes (less than 4).	Perimeter wire too long.	Install the signal amplification kit.
		Perimeter wire damaged or oxidized.	Check any joints. if necessary, replace the wire.
	The led **(C)** (red) of the transmitter is on.	Connections not performed correctly.	Get the check carried out by the nearest authorized Assistance centre.

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PARTS REPLACEMENTS

PARTS REPLACEMENT REMINDERS

Important

Always replace and repair the parts in compliance with the Manufacturer's instructions, otherwise contact the Assistance Service if these operations are not described in the manual.

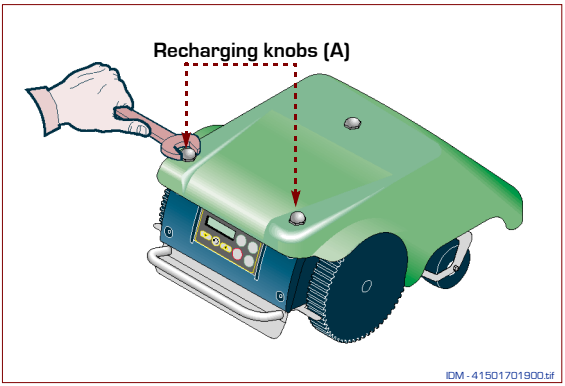
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BATTERIES REPLACEMENT

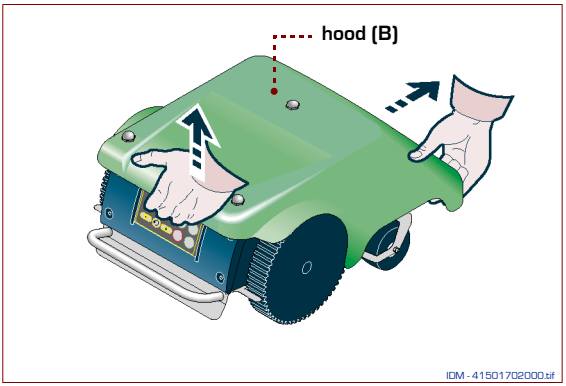
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1-Stop the robot in safety conditions (see "Robot safety stop").

2-Undo the knobs **(A)**.



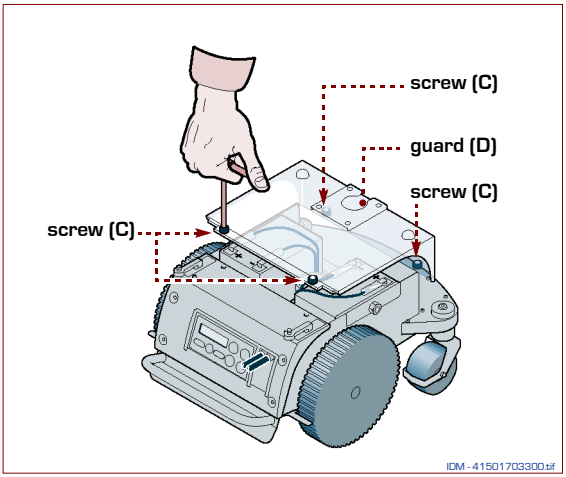
3-Remove the hood **(B)**.



4-Undo the bolts **(C)** and remove the guard **(D)**.

Important

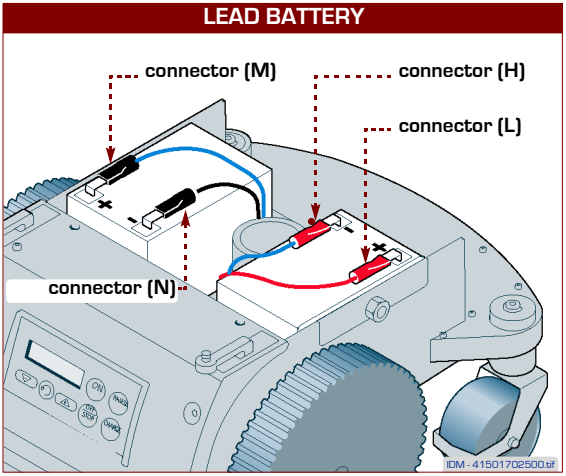
Batteries replacement should be carried out relative to the type installed (lithium or lead).



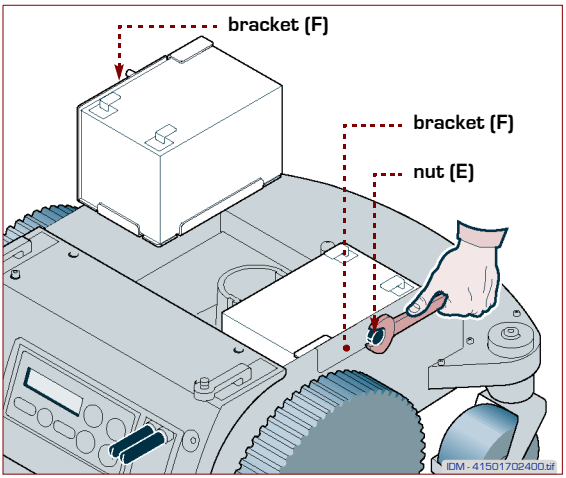
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Lead battery

1-Disconnect the cables in sequence **(L-N-M-H)**.

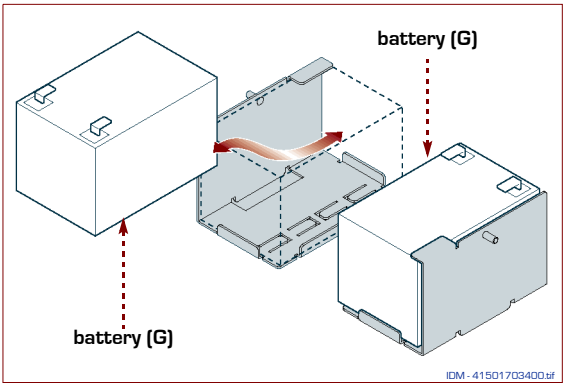


2-Unscrew the nuts **(E)** and unthread the brackets **(F)**.



3-Remove the battery **(G)** and fit the replacement.

4-Perform the same operations to replace the other battery **(G)**.



Important

Do not dump used batteries. Spent batteries must be disposed of in accordance with current statutory regulations.

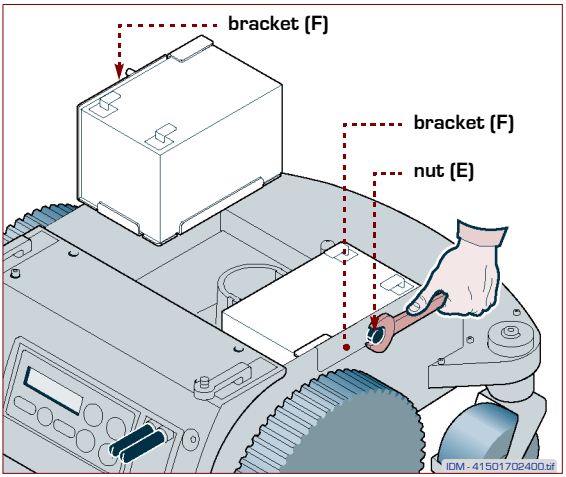
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5-Assemble the brackets **(F)** complete with batteries.

6-Tighten the nuts **(E)**.



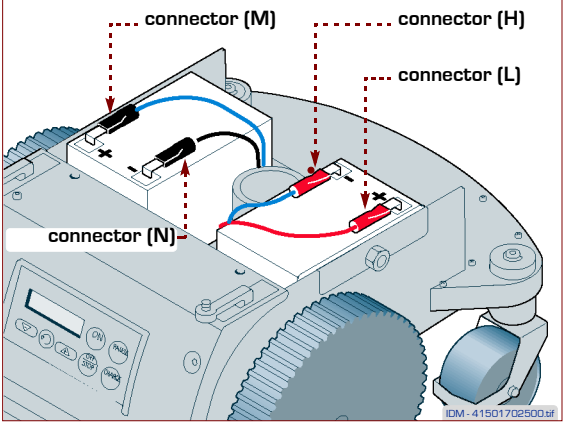
7-Connect the connector **(H)** (red colour with blue)

8-Connect the connector **(L)** (red colour with red cable)

9-Connect the connector **(M)** (black colour with blue cable)

10-Connect the connector **(N)** (black colour with black cable)

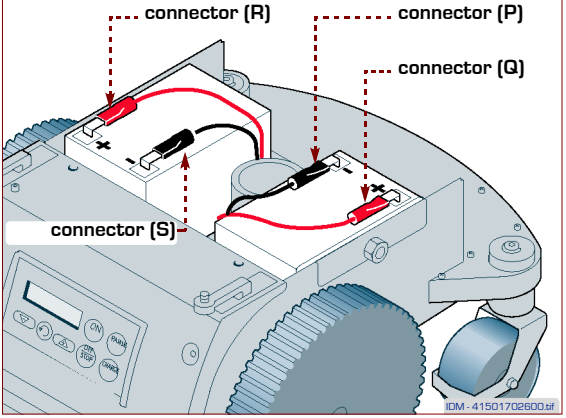
LEAD BATTERY



Lithium battery connection

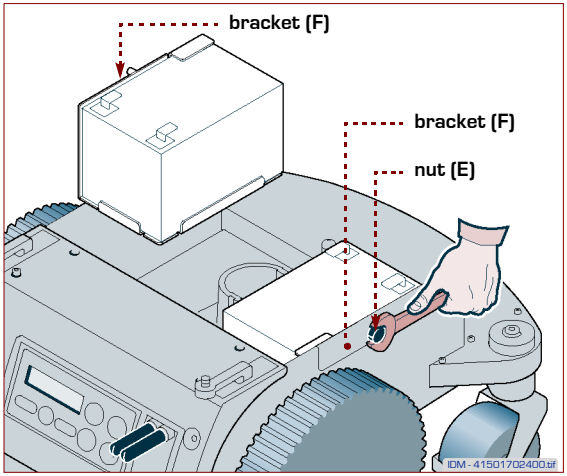
1-Disconnect the cables in sequence **(R-S-Q-P)**.

LITHIUM BATTERY



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2-Unscrew the nuts **(E)** and unthread the brackets **(F)**.



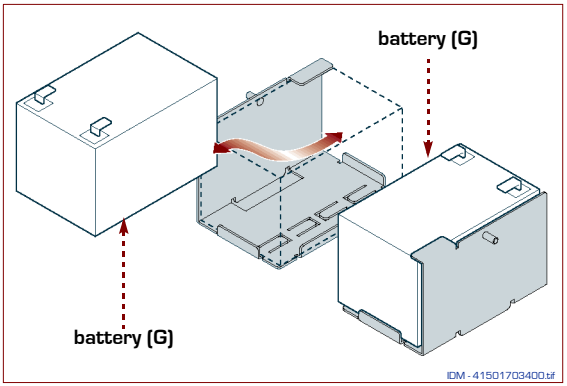
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3-Remove the battery **(G)** and fit the replacement.

4-Perform the same operations to replace the other battery **(G)** (if present).

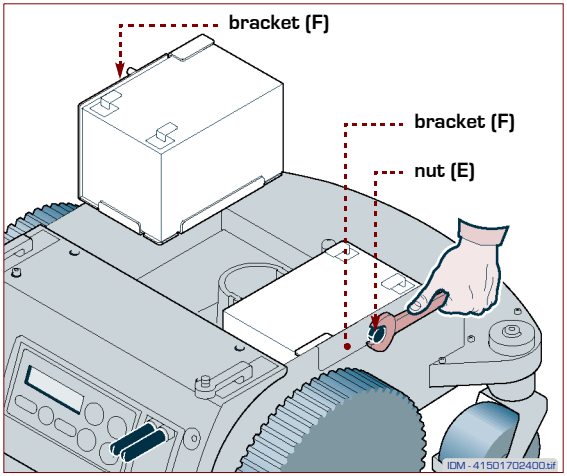
Important

Do not dump used batteries. Spent batteries must be disposed of in accordance with current statutory regulations.



5-Assemble the brackets **(F)** complete with batteries.

6-Tighten the nuts **(E)**.



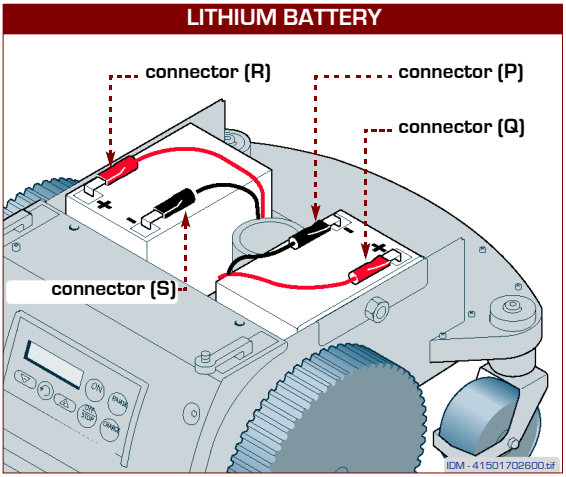
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7-Connect the connector **(P)** (black colour with black cable)

8-Connect the connector **(Q)** (red colour with red cable)

9-Connect the connector **(R)** (red colour with red cable)

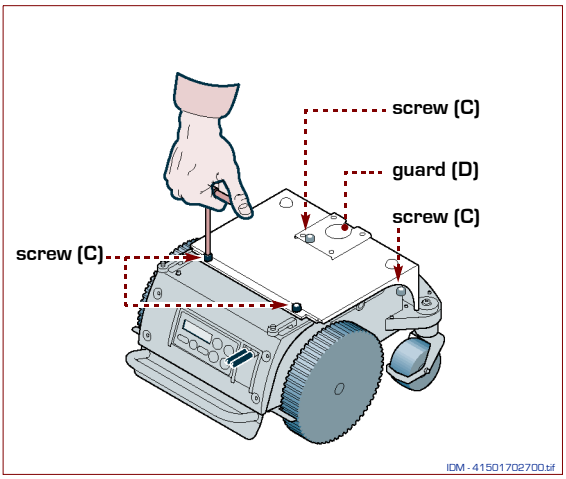
10-Connect the connector **(S)** (black colour with black cable)



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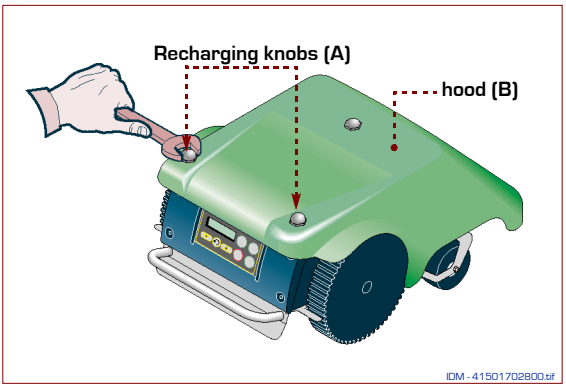
On completing the batteries connections proceed as indicated.

1-Reassemble body cover **(D)** and tighten screws **(C)**.



2-Assemble the hood **(B)**.

3-Tighten the knobs **(A)**.



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4-Position the robot inside the recharging station.

5-Carry out battery recharge.

Warning - Caution

Before performing the first recharge, check that the power supply unit is suitable for the type of batteries installed (power supply unit for lead or lithium batteries) (see "Recharge batteries on first use").

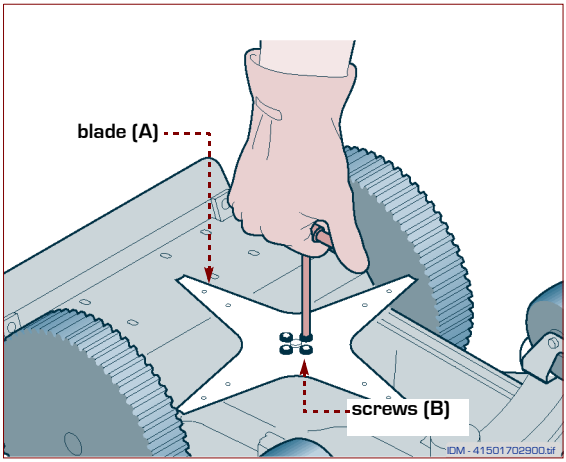
At this point, the robot is ready to use (see "Use and functioning").

REPLACE THE BLADE

1-Stop the robot in safety conditions (see "Robot safety stop").

2-Turn the robot upside down and put it down so not to ruin the covering hood.

3-Remove the screws **(B)** to remove the blade **(A)**.



Important

Use protection gloves to avoid the risk of cuts on hands.

4-Insert the new blade and fasten screws.

5-Adjust the cutting height (see "Adjusting the cutting height").

6-Capsize the robot in its functioning position.

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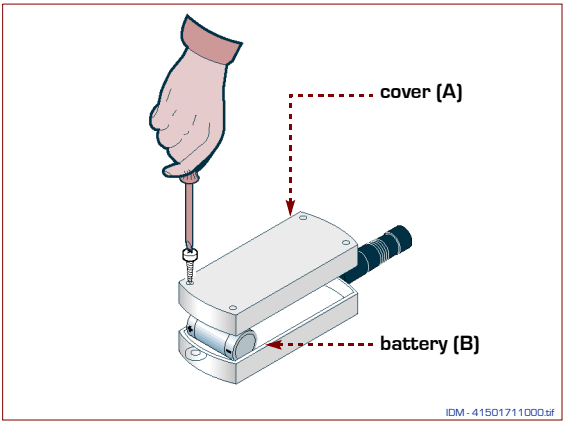
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TELECOMMAND BATTERIES REPLACEMENT THE BLADE

1-Stop the robot in safety conditions (see "Robot safety stop").

2-Remove the cover **(A)**.

3-Extract the battery **(B)** and replace it with one of equal voltage



Important

When reassembling the new battery respect the relative polarities (+ e -).

Do not damage the circuits inside the telecommand.

4-Install the cover **(A)**.
Start the robot and manoeuvre it with the telecommand to check battery efficiency.

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ROBOT DISPOSAL

Danger - Attention

Do not dispose of pollutant materials in the environment. Dispose of all such materials in compliance with applicable legislation.

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